TOSHIBA

LCD TV/DVD COMBINATION

32DV733R

OWNER'S MANUAL

Owner's Record
The model number and serial number are on the back of your TV/DVD. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV/DVD.

Model number: _____
Serial number: _____

©2010 Toshiba Corporation
Before operating the unit, please read this manual thoroughly.

Precautions

CAUTION:

THIS UNIT IS A CLASS 1 LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE UNIT.

WHEN THIS UNIT IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Headphone Warning

Loud music can damage your hearing irreversibly. Do not set the volume to a high level when listening through headphones, particularly for extended listening periods.

Information for the DVB-T function

- Any function relative to the digital television (with the DVB logo) is available only within the country or area where such signals are transmitted. Verify with the salesperson if it is possible to receive a DVB-T signal in the zone where you live.
- Even if the television conforms to the DVB-T specifications, the compatibility to future digital DVB-T transmissions is not guaranteed.
- Some digital television functions may not be available in some countries.
- The DVB-T system present in this device is FTA (Free to air).
- DVB is a registered trademark of the DVB Project. This logo indicates that the product is compliant with European Digital Broadcasting.

Possible Adverse Effects on LCD Screen

If a fixed (non-moving) pattern remains on the LCD screen for long periods of time, the image can become permanently retained on the LCD TV panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your TV on for long periods of time while it is displaying the following formats or images:

- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (Black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (Black bars on left and right sides of screen).

IMPORTANT INFORMATION

DVB-C Notice

The DVB-C function may not be available to your TV, depending on the area you live and the TV firmware version. Should you see a notice message appear on-screen when selecting the DVB-C items, please go to Toshiba's official website at http://www.toshiba-om.net/ to download the latest firmware, which will be released in July, to initiate the function. For more information, please refer to page 12.

TV Installation

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

Place the TV on a stable, level surface that can support the weight of the TV. In order to maintain stability and prevent it from falling over, secure the TV to a wall using a sturdy tie to the clip on the back of the table top stand.

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Important safety information

This unit has been produced according to all current safety regulations. The following safety tips should safeguard users against careless use and the dangers related to such use.

- Although this unit has been carefully manufactured and rigorously checked prior to leaving the factory as with all electrical appliances, it is possible for problems to develop. If you notice smoke, an excessive build-up of heat or any other unexpected phenomena, you should disconnect the plug from the mains power socket immediately.
- Ensure that the unit is sufficiently ventilated! Never place it next to or underneath curtains!
- This set should only be connected to an AC 220-240V/50 Hz mains power supply. Do not attempt to connect it to any other type of supply.
- The socket outlet must be installed near the equipment and is easily accessible.
- Do not open this unit. An attempt to repair the unit by a non-expert could be dangerous and potentially cause a fire hazard. All repairs must be carried out by qualified service personnel only.
- Keep away from rodents. Rodents (and also cockatiels) enjoy biting electric flexes. They can cause a short circuit (fire hazard!) and receive a fatal electric shock.
- Always hold the plug when disconnecting the unit from the socket outlet. Do not pull on flex. The flex can become overloaded and cause a short circuit.
- Use a damp---not wet---cloth to clean the unit.
- Set up unit so that no one will trip over the flex.
- This unit is recommended to be installed on shock-free benches in order to avoid any danger from falling.
- Take note that toddlers can pull the unit down from a table or cupboard by means of its flex. Children can hurt themselves when doing this.
- Do not use the unit near heat sources. The casing and flex could be damaged by the intensity of the heat.
- The screen is made of glass and can break if damage is done to it. Be careful when collecting sharp edged glass splitters.
- If you intend to wall mount the unit, contact the shop where you purchased the unit for advice, and leave the installation work to professionals. Improper installation can cause damage and/or injuries.
- When installing the set on a wall, allow at least 10 cm clearance between the rear of the set and the wall. Clearance of less than 10 cm will obstruct the vents and cause overheating to the interior of the set, resulting in faults or damage to the set.
- Taking fall-prevention measures
  - If these measures are not taken, the unit can fall and cause damage and/or injuries.
  - Contact the shop where you purchased the unit to obtain full details of the measures.
- When a TV stand is used,
  - Ensure the unit is fully on the stand and placed in the centre.
  - Do not leave the stand doors open. You could be hurt as a result of the unit falling or breaking, or your fingers being caught or jammed. Take extra precautions if you have children.
- Avoid placing the unit on any surfaces that may be subject to vibrations or shocks.
- To protect the unit during a thunder storm, unplug the AC power cord and disconnect the aerial.
  Caution: Do not touch the aerial connector.
- When you leave your home for a long period of time, unplug the AC power cord for safety.
- The unit becomes warm when in operation. Do not place any covers or blankets on the unit in order to prevent overheating. The ventilation holes should not be blocked. Do not set up near radiators. Do not place in direct sunshine.
- When placing on a shelf, allow at least 10 cm clearance space around the whole unit.
- The unit shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Liquids spilled into the unit can cause serious damage. Switch the set off and disconnect the mains power supply, then consult a qualified service person before attempting to use the unit again.
- Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day and drops of water form on the outside of the glass. In the same way, moisture may condense on this unit's internal optical pick-up lens, one of the most crucial internal parts of the unit.
- Moisture condensation occurs in the following situations:
  - When you move the unit from a cold place to a warm place.
  - When you use the unit in a room where the heater was just turned on.
  - When you use the unit in an area where cold air from an air conditioner directly hits the unit.
  - When you use the unit in a humid place.
- Never use the unit when moisture condensation may occur.
- Using the unit when moisture condensation exists may damage its own internal parts and discs. Connect the power cord of the unit to the wall outlet, turn on the unit, remove the disc, and leave it for two or three hours. After two or three hours, the unit will warm up and moisture will be evaporated. Leaving the TV connected to the wall outlet will help prevent moisture condensation in the unit.
- Never place hot objects or open flame sources, such as lighted candles or night lights, on or close to the TV. High temperatures can melt plastic and lead to fires.

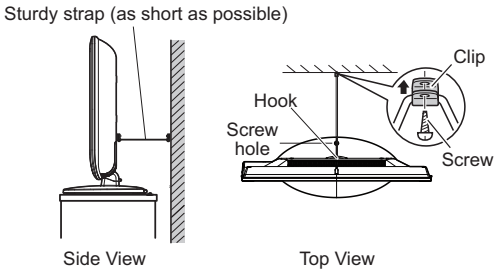
Important safety information (continued)

Where to install

Locate the television away from direct sunlight and strong lights; soft and indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight from falling on the screen.

Always place the TV on a sturdy, level, stable surface that can support the weight of the TV. In order to maintain stability and prevent the TV from falling over, secure the TV with a sturdy strap from the hook on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.

The LCD display panels are manufactured with extremely high-precision technology techniques. However some non-active pixels may appear on the screen or luminous spots may occur occasionally - this is not a sign of a malfunction.



Make sure that the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen, and that small items cannot be inserted into slots or openings of the case.

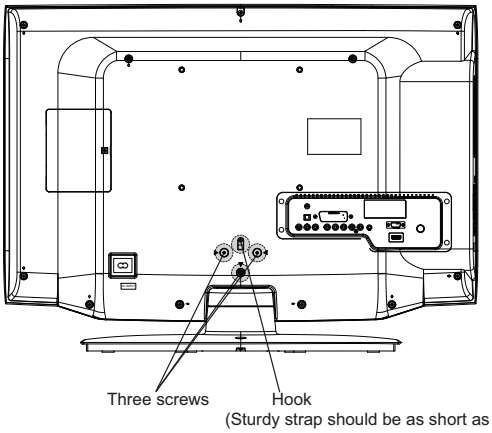
To display your LCD TV using a wall bracket

If you decide to wall mount your LCD TV, always use a wall bracket appropriate for the size and weight of the LCD TV:

(1) **Caution:** Two people are required for installation.
(2) Unplug and remove any cables and/or other component connectors from the rear of the TV.
(3) Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
(4) **IMPORTANT:** Always use the screws supplied or recommended by the wall mount manufacturer.
(5) After attaching the appropriate bracket(s) to the wall and the back of the TV, remove the pedestal stand from the TV as described below.

Removing the pedestal stand

(1) Carefully lay the front of the TV face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.
Note: Extreme care should always be taken when removing the pedestal stand to avoid damage to the LCD panel.
(2) Remove the screws shown in the diagram below. This will allow removal of the pedestal stand.
(3) Once you have removed all screws holding the pedestal stand in place, remove the pedestal stand from the TV by sliding the pedestal stand away from the TV.



Please take note

If stationary images generated by text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television screen for any length of time, they could leave an afterimage. It is always advisable to reduce both the brightness and contrast settings.

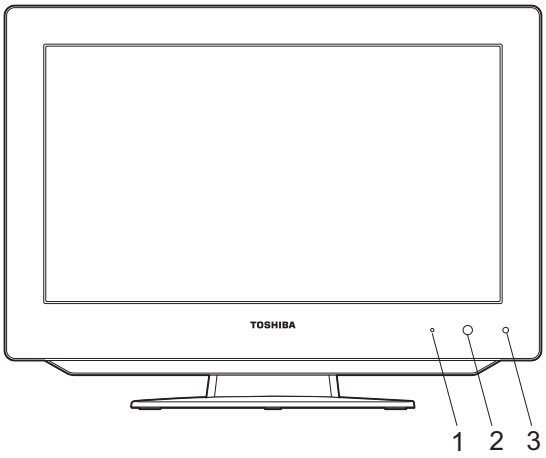
EXCLUSION CLAUSE

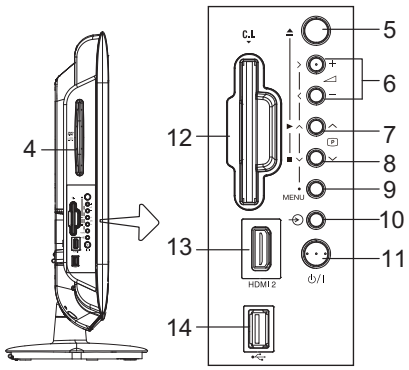
Toshiba shall under no circumstances be liable for loss and/or damage to this product caused by:

i) fire;
ii) earthquake;
iii) accidental damage;
iv) intentional misuse of the product;
v) use of the product in improper conditions;
vi) loss and/or damage caused to the product whilst in the possession of a third party;
vii) any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
viii) any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following: loss of profit, interruption of business, and/or loss of recorded data whether caused during normal operation or misuse of the product.

Location of controls

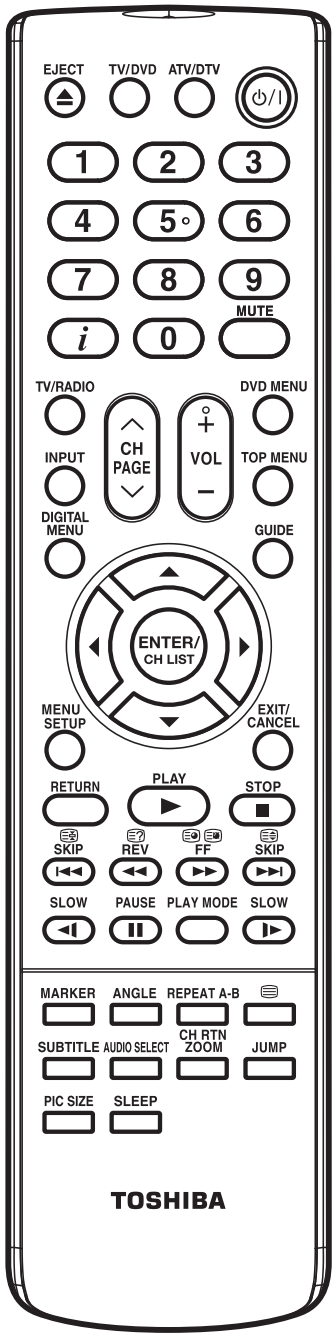




Description of indicators and controls

1. **POWER indicator:** The Power indicator lights red in standby mode, orange in standby mode when the timer is activated, and green when TV is powered on.
2. **Remote sensor**
3. **Auto Brightness Sensor:** This sensor will detect the ambient light conditions to optimise the backlighting level (see page 13).
4. **Disc slot:** Load the disc into the disc slot to view or listen.
5. **EJECT:** Press to eject a disc.
6. **VOLUME + / -:** Press to adjust the volume level. In Menu: Setting.
7. **PLAY/ P CHANNEL ∧:** Press ∧ to change to a higher numbered channel set into memory.
   In DVD mode: Playback. In Menu: Functions as up menu navigation button. In Standby mode: Turn the TV on.
8. **STOP/ P CHANNEL ∨:** Press ∨ to change to a lower numbered channel set into memory.
   In DVD mode: Stop. In Menu: Functions as down menu navigation button. In Standby mode: Turn the TV on.
9. **MENU:** Press to access the menu system.
10. **INPUT/ENTER:** Select video input source. In Menu: Use as an **ENTER** button to confirm selection.
11. **POWER button:** Connect the supplied AC power cord to 220-240V/50 Hz AC outlet, and then press the button to turn the TV on and off.
12. **C.I. slot:** The Common Interface allows you to insert CAM (Conditional Access Module) and a suitable Smart Card to give you access to additional Pay-TV services (see page 47). Before inserting the module, make sure to turn off the mains power and then insert the module all the way into the slot until it is flushed with the side panel buttons.
13. **HDMI 2 input:** High-Definition Multimedia Interface (**HDMI 2**) input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. HDMI connection is necessary to receive 1080p signals (see pages 77-79).
14. **USB terminal:** For use when inserting a USB device.

Remote control



	Function	Page
EJECT	Eject a disc from the disc slot	54
TV/DVD	Toggle between TV and DVD mode	16, 53
ATV/DTV	Toggle between analogue TV and digital TV	16
	Toggle between power on and standby mode	16
0 ~ 9	- Select a channel - Select a teletext page - Enter the password	23 25 44, 76
	Display source information	24, 50, 61
MUTE	Turn the sound on/off	23
TV/RADIO	Toggle between TV, Radio, and Data modes	23
INPUT	Select an input source	18
CH PAGE	- Change the TV channel or teletext page up or down - In standby mode: turn on the power	23, 25 16
VOL	Increase or decrease the volume	23
DVD MENU	- In DVD mode, view the DVD menu screen - In JPEG CD mode, display image thumbnails	59 63
TOP MENU	- In DVD mode, select a DVD title - In JPEG CD mode, view the image file browser	59 63
DIGITAL MENU	In DTV mode, display the Digital Main Menu	16
GUIDE	Display the EPG (Electronic Program Guide)	50
	Cursor buttons to select or adjust programming menus when a menu is on-screen	14, 15
ENTER/ CH LIST	- When using the TV menu, enable a menu option or view a sub-menu screen - In teletext mode, display teletext page 100 - When in TV mode, display the channel list	16 25 23
MENU SETUP	- In ATV mode, display the Analogue Main Menu - In DVD mode, display the DVD Setup menu	16 70
EXIT/ CANCEL	- Exit the Analogue or Digital Main Menu screen - Cancel marking	16 57
RETURN	- Exit the DVD Setup Menu screen - Return to previous directory from Media Player sub-folder or sub-menu	70 38-40, 42
PLAY	Start or resume disc playback	53
STOP	Cancel disc playback	53
SKIP	- Pause the teletext display to “hold” the current page in place - Jump to the previous chapter/track	25 55
REV	- In teletext mode, reveal the answers to quiz questions - During playback, play in fast reverse direction	25 55
FF	- In teletext mode, view a sub-page - During playback, play in fast forward direction	25 55
SKIP	- In teletext mode, toggle the display size - During playback, jump to the next chapter/track	25 55
SLOW PAUSE PLAY MODE SLOW	- Fastext/TOP text buttons - DVD control buttons	25 55, 58
MARKER	Mark specific playback points in a DVD, VCD, or audio CD	57
ANGLE	- In DVD mode, change the scene angle - In JPEG CD mode, rotate the image display	59 65
REPEAT A-B	Repeat playback of a specific section between two set points (A-B)	58
	Toggle the teletext display on or off	25
SUBTITLE	Set the subtitle of a multi-language DVD	49, 60
AUDIO SELECT	- In ATV mode, select between the available broadcast audio channels - In DTV mode, display the Multi audio menu - Change the soundtrack language of a multi-language DVD or VCD	26 48 60
CH RTN ZOOM	- In TV mode, switch to the last channel selected prior to the current one - In DVD mode, change the image viewing scale of a video or image file	23 56
JUMP	Select the specific point where to start disc playback	56
PIC SIZE	In TV/DVD mode, change the display’s aspect ratio	27
SLEEP	Configure the Sleep Timer	24

Remote control (continued)

Install the batteries

Use R03/AAA/UM4 batteries.

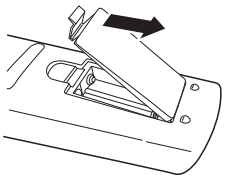
Note:

- Weak batteries can leak and severely damage the remote control transmitter. Always remove batteries if they become weak or if the remote control is not to be used for an extended period of time.
- Do not use old or weak batteries. The remote control may not work properly with a weak voltage from such batteries. Replace exhausted batteries with new ones. Never try to recharge normal batteries - this could cause an explosion.
- Dispose of batteries in a designated disposal area.

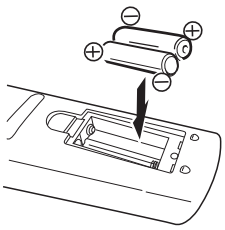
Warnings:

- Never throw batteries into a fire.
- Never expose batteries to excessive heat such as sunshine, fire or the like.

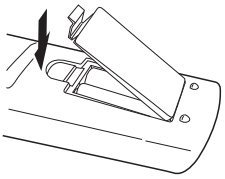
1 Open the battery compartment cover in the direction of the arrow.



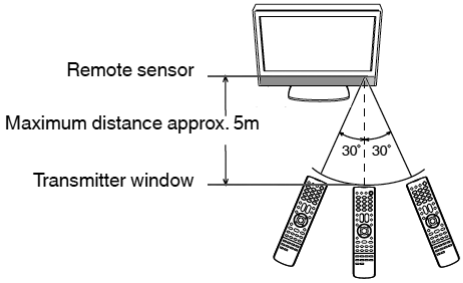
2 Install the batteries as shown below, ensuring the correct polarity.



3 Close the battery compartment.

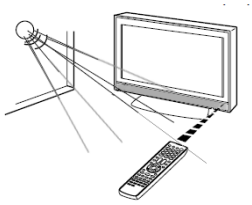


Distance of remote control operation

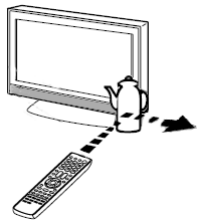


Aim the remote control directly at the remote sensor.

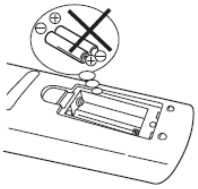
The remote control will not work properly in the following cases:



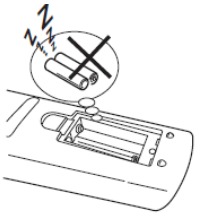
If bright sunlight directly beams on the front of the TV.



If an obstacle is placed between the TV and the remote.



If the batteries are not installed according to their polarities.



If the batteries are weak.

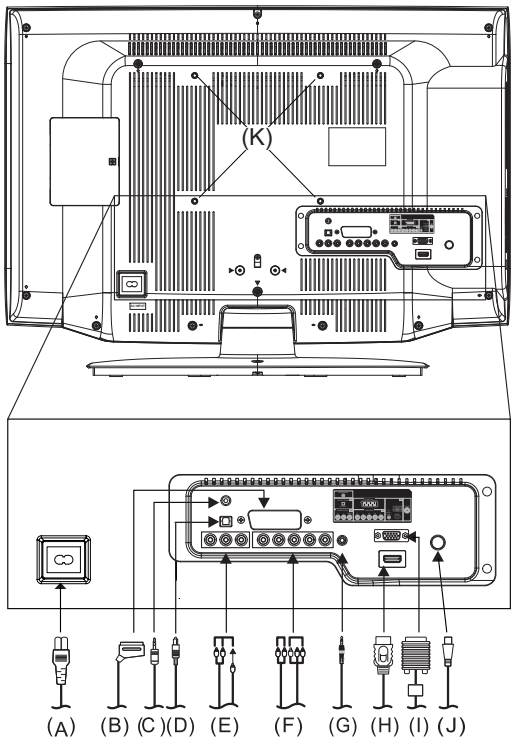
I/O connections

Note:

Before you connect other appliances:

- To avoid potentially damaging your TV, make sure all items are switched off and disconnected from the mains power when you make the connections.
- Arrange the desired connection.
- When you have finished making the connections, reconnect the mains power to the TV and switch it back on.

Connect your aerial as shown below. Connections to other equipments is explained further on pages 77-81.
If you have problems with reception, consult a TV antenna installer.



(A) AC input: Connect one end of the supplied AC power cord into the TV's AC input jack, and the other end to an AC 220-240V/50 Hz power outlet to turn on and operate the TV.

(B) AV1 (SCART) socket: For the connection of SCART cable, see pages 80-81.

(C) HEADPHONE jack: For use when inserting a headphone with a mini plug (3.5 mm).

(D) OPTICAL DIGITAL AUDIO output: Optical audio output in Dolby Digital format for connecting an external Dolby Digital decoder, amplifier, or home theatre system with optical audio input (see page 80).

(E) AV2 (VIDEO, Audio L/R) input: Standard (composite) video and standard audio inputs plus for connecting devices with composite video (see pages 80-81).
Note: Standard (composite) video cables carry only video information; separate audio cables are required for a complete connection.

(F) COMPONENT input: For use when connecting devices with component video output (see page 81).
Note: Component video cables carry only video information; separate audio cables are required for complete connection.

(G) PC/HDMI 1 AUDIO input: PC audio input terminal is shared with HDMI 1 analogue audio input terminal (see pages 77-78).

(H) HDMI 1 input: High-Definition Multimedia Interface (**HDMI 1**) input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see (G). HDMI connection is necessary to receive 1080p signals (see pages 77-79).

(I) PC MONITOR input (PC): For use when connecting a personal computer (see page 77).

(J) Tuner: Connect the outdoor aerial to the aerial input socket (see page 80).

(K) Bracket holes: Fix a wall mounting bracket (not supplied) here.

DVB-C function notice

DVB-C (Digital Video Broadcasting - Cable) is the DVB European consortium standard for the broadcast transmission of digital television over cable. This system transmits an MPEG-2 or MPEG-4 family digital audio/video stream, using a QAM modulation with channel coding.

Information for the DVB-C function

- Any function relative to the digital television (with the DVB logo) is available only within the country or area where such signals are transmitted. Verify with the salesperson if it is possible to receive a DVB-C signal in the zone where you live.
- Even if the television conforms to the DVB-C specifications, the compatibility to future digital DVB-C transmissions is not guaranteed.
- Some digital television functions may not be available in some countries.
- The digital reception function of this television is only effective in the countries listed in **Country** in the **Setup** menu.

Operation of DVB-C items

Instruction items marked with an asterisk in the Owner's Manual are relevant to the DVB-C function. When they are selected, a notice message will appear. You will be asked to download the latest firmware at Toshiba's official website for your TV to enable the DVB-C function. Otherwise, this function cannot be supported.

To initiate the function, you should check if the DVB-C signal is provided by your country or your service provider, and if your TV is equipped with the latest firmware.

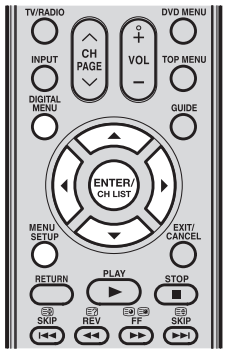
DVB-C items

The DVB-C features are implemented on the following sections:

- Auto setup (See pages 14-15)
- *DTV auto tuning/Setting Antenna or Cable (See pages 16-17)
- Automatic station presetting with the built-in tuner (See page 19)
- Manual TV station presetting (See pages 21-22)

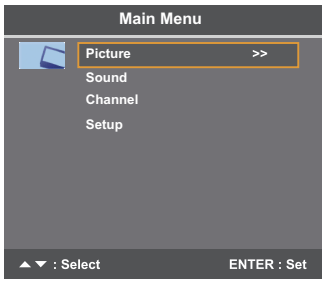
Using the Auto Brightness Sensor

When the Auto Brightness Sensor feature is set to **On**, the TV will automatically optimise the backlighting levels to suit ambient light conditions.

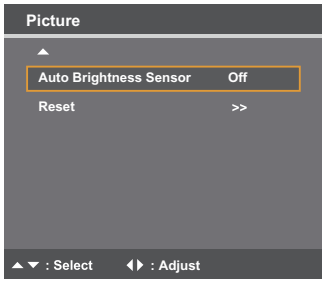


1 Press **MENU SETUP** (MENU SETUP) or **DIGITAL MENU** (DIGITAL MENU) to display the Main Menu screen.

Select **Picture,** and then press **ENTER/CH LIST** (ENTER/ CH LIST).



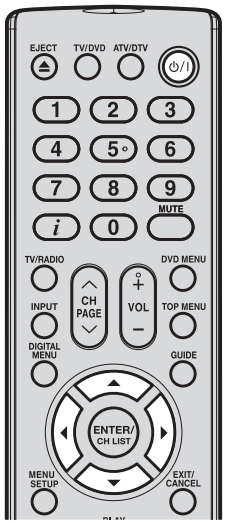
2 Press ▲ / ▼ to select **Auto Brightness Sensor**, and then press ◀ / ▶ to select **On** or **Off** to confirm your choice.



Auto setup

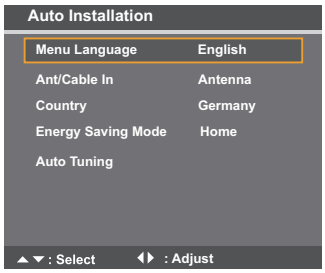
Your TV has an automatic installation routine which makes installation easy. When you turn on the TV for the first time, the automatic installation routine is activated. This routine helps you select the on-screen language, antenna or cable in, country, energy saving mode, and automatically search for and store all available analogue and digital (DVB) channels.

The automatic station presetting feature is for the TV's built-in tuner only. If you have a device such as a digital decoder (e.g. Satellite or Digital Terrestrial) connected (see page 80), you need to tune it in separately according to its own instructions.



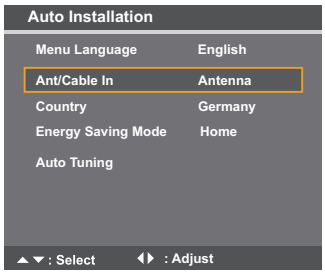
1 Press ⏻/I on the TV control panel or ⏻ on the remote control.

The **Auto Installation** menu will appear.



2 Press ▲ / ▼ to select **Menu Language,** and then press ◀ / ▶ to select your preferred language.

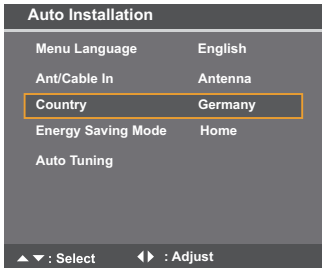
3 *Press ▲ / ▼ to select **Ant/Cable In,** and then press ◀ / ▶ to select between **Antenna** or **Cable** for your TV.



Note:

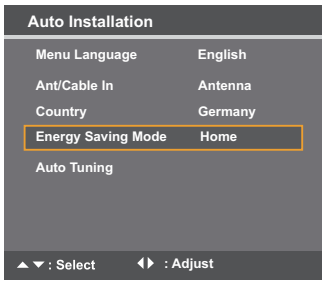
- A DVB-C notice will appear when you switch **Antenna** to **Cable**. Please check if this function is supported in the place you live, and if the latest firmware has been installed on your TV (see **DVB-C Notice** on page 2 and **DVB-C function notice** on page 12).

4 Press ▲ / ▼ to select **Country,** and then press ◀ / ▶ to select your country.



5 Press ▲ / ▼ to select **Energy Saving Mode**.

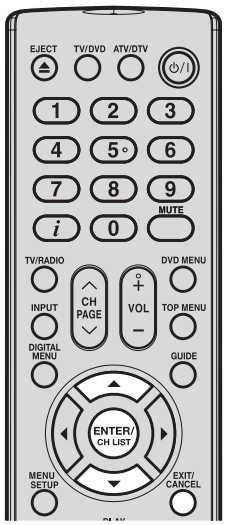
For normal home use, press ◀ / ▶ to select **Home**.



Note:

- The factory default settings of this TV meet the Energy Saving requirements. Enabling or changing certain features and functionality (e.g. Picture Setting) may increase energy consumption, possibly beyond the limits required for Energy Saving qualification.

  To ensure your TV is operating at optimal energy efficiency, select [Home] mode during initial activation.
- If you want to change the current energy saving mode setting, perform the **Reset** procedure (see page 31) and run the auto installation routine to select a different mode.



Note:

- The Auto Tuning process will only start by itself the first time you turn on the TV/DVD. To enable **Auto Tuning** in a later time, see page 19.

6 Press ▲ / ▼ to select **Auto Tuning**, and then press **ENTER/CH LIST** (ENTER/ CH LIST).

A message prompt will appear with option to connect aerial to TV.

7 Press **ENTER/CH LIST** (ENTER/ CH LIST) to start **Auto Tuning**.

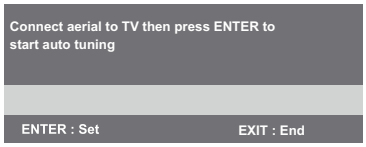
Your TV will now automatically detect all available channels in your area and store them in the TV's memory. Analogue channels will be scanned first, and then digital channels.

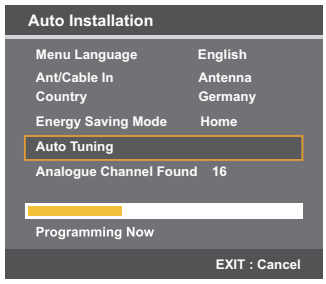
When the **Programming Now** progress bar is completely highlighted, the Auto Tuning process is finished.

To cancel the Auto Tuning process:
Press **EXIT/CANCEL** (EXIT/ CANCEL).

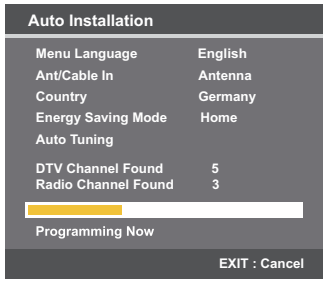
Note:

- Please be patient. The Auto Tuning process can take several minutes to complete.





(Analogue)



(Digital)

*DTV auto tuning/Setting Antenna or Cable

Preparations:

- Turn on the TV with the ⏻/I button on its left side.The ⏻/I power indicator will light green. To place the TV in standby mode, press ⏻/I on the remote control. Power indicator will change from green to red. To turn on the TV from standby mode, press ⏻/I on the remote control again.
  In standby mode, you can also turn the TV on with P ∧/∨ on the TV or **CH** ∧/∨ on the remote control.
  To turn off the TV, press ⏻/I button on it; to completely switch it off, disconnect the mains power supply.
- Press **TV/DVD** (TV/DVD) to select TV mode.
- Press **ATV/DTV** (ATV/DTV) to toggle between analogue TV and digital TV mode.

Note:

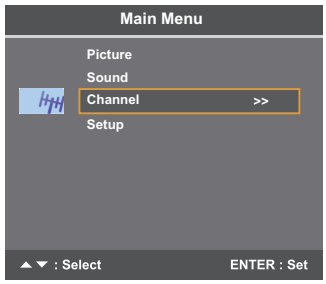
- If no button is pressed after approximately 60 seconds, the Main Menu screen will disappear.
- Press **EXIT/CANCEL** (EXIT/CANCEL) to exit the Main Menu screen.

Auto Tuning will completely re-tune your TV and can be used to update the channel list. It is recommended that DTV auto tuning is run periodically to ensure new services are added. If the setting of **Ant/Cable In** is changed the **Auto Tuning** screen will automatically appear. All current programmes and settings will be lost.

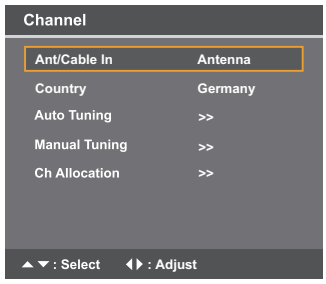
1 Press **INPUT** (INPUT) to select **ATV** or **DTV**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

2 Press **MENU SETUP** (MENU SETUP) in ATV (analogue TV) mode or press **DIGITAL MENU** (DIGITAL MENU) in DTV (digital TV) mode to display the Main Menu screen.
When **DIGITAL MENU** (DIGITAL MENU) is pressed in ATV mode, it will automatically switch to DTV mode. And it is possible to use **MENU SETUP** (MENU SETUP) in DTV mode.

3 Press ▲ / ▼ to select **Channel**, and then press **ENTER/CH LIST** (ENTER/CH LIST).



4 *Press ▲ / ▼ to select **Ant/Cable In**, and then press ◀ / ▶ to select between **Antenna** or **Cable** for your TV.



Note:

- A DVB-C notice will appear when you switch **Antenna** to **Cable**. Please check if this function is supported in the place you live, and if the latest firmware has been installed on your TV (see **DVB-C Notice** on page 2 and **DVB-C function notice** on page 12).

A message prompt will appear warning that the previously stored channels will be lost.

Press ◀ / ▶ to select **Yes** or **No**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

Note:

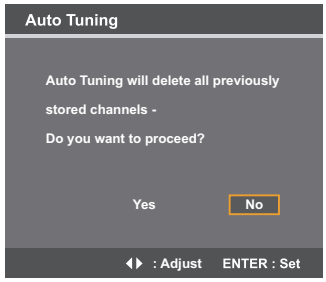
- If DVB-C function is unavailable, the message prompt will not appear.

5 Press ▲ / ▼ to select **Country,** and then press ◀ / ▶ to select your country.

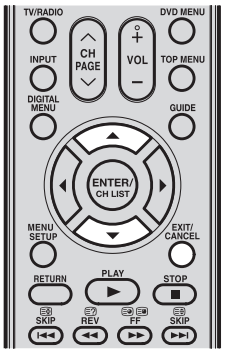
6 Press ▲ / ▼ to select **Auto Tuning**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

Setting Antenna:

(1) When **Ant/Cable In** is set to **Antenna**, a message prompt will also appear with option to delete previously stored channels.
Press ◀ / ▶ to select **Yes** or **No**, and then press **ENTER/CH LIST** (ENTER/CH LIST).



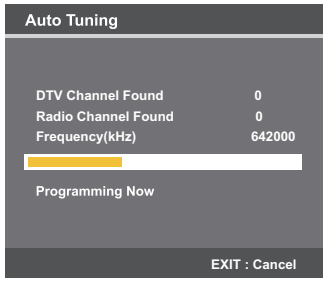
*DTV auto tuning/Setting Antenna or Cable (continued)



Note:

- All the channels will be deleted before the scanning process begins.
- You can cancel the scan process at any time by pressing **EXIT/CANCEL** EXIT/CANCEL. The carriers and the services stored before **EXIT/CANCEL** EXIT/CANCEL is pressed will be stored.

(2) The auto scan process will now begin. A progress bar appears to indicate scanning progress.

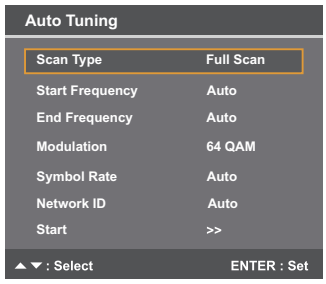


***Setting Cable:**

(1) When **Ant/Cable In** is set to **Cable**, a list of setting options will be displayed.

Note:

- This setting cannot be enabled due to DVB-C unavailability. Please check if this function is supported in the place you live, and if the latest firmware has been installed on your TV (see **DVB-C Notice** on page 2 and **DVB-C function notice** on page 12).



With the exception of **Scan Type** and **Modulation**, all of the settings have two options:

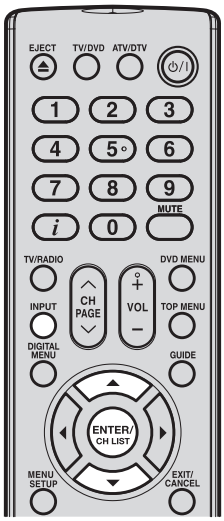
- **Auto**: Values are pre-set by the TV's operating system.
- **Input**: Allows a single value to be entered in place of the pre-set value. If no channel is currently tuned and **Input** is chosen a system default value will be displayed. If a channel is currently tuned and **Input** is chosen the value of the channel will be displayed.

- **Scan Type**: There are two options, Full Scan and Quick Scan. Quick Scan is a simplified version of Full Scan and takes less time to complete.
- **Start Frequency**: This sets the frequency from which the scan will start.
- **End Frequency**: This sets the frequency at which the scan will stop. The valid entry range for frequency items is 113.000-858.000 for C-Book/Other and 114.000-858.000 for Nordig-C. If a number outside of this range is entered the value will automatically set to a minimum or maximum valid value.
- **Modulation**: There are six QAM modulation settings to choose from.
- **Symbol Rate**: This is the Baud rate (KS/s) of the scan. The valid entry range for **Symbol Rate** is 4000-7200. If a number outside of this range is entered, the value will automatically set to a minimum or maximum valid value.
- **Network ID**: This is the **Network ID** to be used for the scan. This item will be disabled and cannot be selected when the Scan Type is set to **Full Scan**.The valid entry range for **Network ID** is 1-65535. If a number outside of this range is entered, the value will automatically set to a minimum or maximum valid value.

(2) Press ▲ / ▼ to select **Start** to start auto scan.

7 Press **EXIT/CANCEL** EXIT/CANCEL to return to the normal screen.

Selecting the video input source



Note:

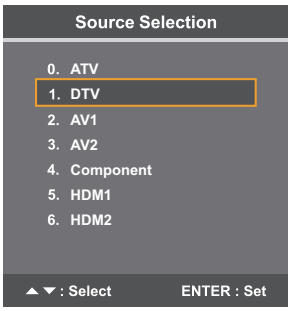
- If no button is pressed after approximately 5 seconds, the Source Selection menu screen disappears.

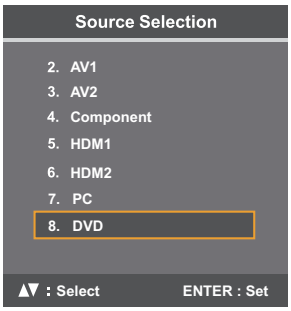
Selecting the video input source

1 Press **INPUT** (INPUT) to view a signal from the device connected to your TV, such as a VCR or DVD player.

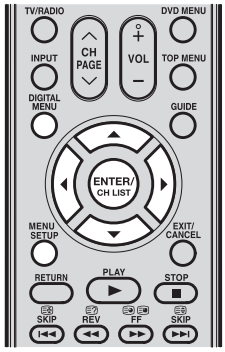
You can select each input source according to the devices you have connected to your TV.

2 Press ▲ / ▼ or the corresponding number on the screen to select a video input source, and then press **ENTER/CH LIST** (ENTER/CH LIST) within 5 seconds.





Automatic station presetting with the built-in tuner



Automatic station presetting with the built-in tuner

Perform this feature to search for and store new analogue and digital TV programmes after the Automatic Installation (see pages 14-15).

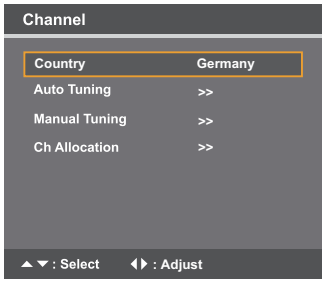
Preparation:

Make sure your antenna is connected to the aerial input (see page 11). Select ATV or DTV (see page 16), and then press **MENU SETUP** or **DIGITAL MENU** .

1 Press ▲ / ▼ to select **Channel**, and then press **ENTER/CH LIST** .

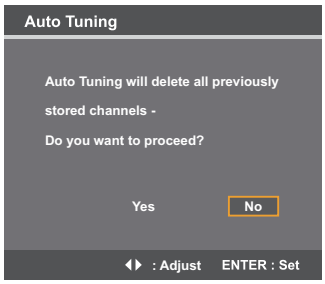
2 **In ATV mode:**

(1) Press ▲ / ▼ to select **Country,** and then press ◀ / ▶ to select your country.

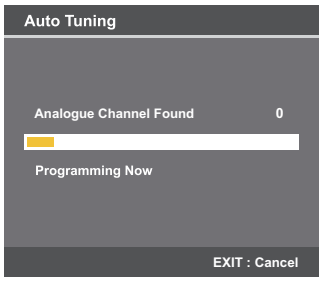


(2) Press ▲ / ▼ to select **Auto Tuning,** and then press **ENTER/CH LIST** .

(3) A message prompt will appear with option to delete previously stored channels. Press ◀ / ▶ to select **Yes** or **No**, and then press **ENTER/CH LIST** .



The automatic tuning will search for available channels and store them in a correct order. During the search the sound is muted. When all channels have been stored, the normal TV screen will appear.



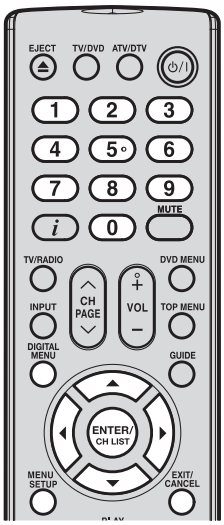
***In DTV mode:**

Perform the steps 4-6 as detailed in **DTV auto tuning/Setting Antenna or Cable** on pages 16-17.

Note:

- The DVB-C function cannot be initiated when switching the setting of **Ant/Cable In** to **Cable**. Please check if this function is supported in the place you live, and if the latest firmware has been installed on your TV (see **DVB-C Notice** on page 2 and **DVB-C function notice** on page 12).

Changing the order of stored channels



Note:

- When changing the order of channels, it is best to start with Ch1.

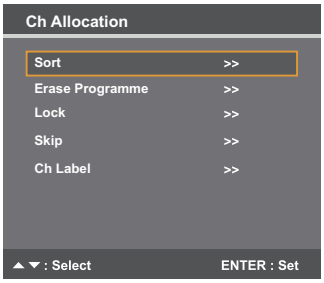
Changing the order of stored channels

The Automatic station presetting stores channels in a specific order. However, this order can be changed if you wish.

1 Press **MENU SETUP** or **DIGITAL MENU** to display the Main Menu screen. Select **Channel**, and then press **ENTER/CH LIST**.

2 Press ▲ / ▼ to select **Ch Allocation**, and then press **ENTER/CH LIST**.

3 Press ▲ / ▼ to select a channel allocation option, and then press **ENTER/CH LIST**.



4 After configuring the channel allocation options, press **MENU SETUP** to return to **Ch Allocation** menu, or press **EXIT/CANCEL** to return to the normal screen.

There are several options to customise your channel allocation settings:

Sort

Press ▲ / ▼ to select the channel that you want to move, and then press ◀ to move the channel label to the left side of the list. Press ▲ / ▼ to select the position that you want to move the channel to, and then press ▶ to confirm the move.

Erase Programme

Press ▲ / ▼ to select the channel that you want to erase, and then press **ENTER/CH LIST**.

Lock

This feature enables you to lock any channel you choose by pressing **ENTER/CH LIST**, and then enter the parental lock password. If you have not set the parental lock password, you can use the initial password “0000”.

Skip

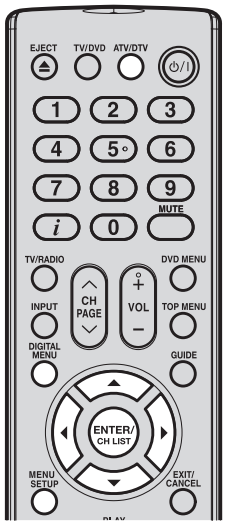
Press ▲ / ▼ to select the channel that you want to skip, and then press **ENTER/CH LIST**. A ✳ mark will appear.

Ch Label

- **Channel Number:** Press ◀ / ▶ to select a channel that you want to renumber, and then press **ENTER/CH LIST**. Use the **number buttons 0-9** to input the number that you prefer for the selected programme. If the number you key in has already existed, a warning message will appear, and you should try another one.
- **Ch Label:** Press ◀ / ▶ to select a channel that you want to rename, and then press ▲ / ▼ to select **Ch Label**. Press ◀ / ▶ repeatedly until the character you want appears in the first place. When the character you want appears, press **ENTER/CH LIST**. Repeat this step to enter the rest of the characters.
- **Label Clear:** If you want to remove the channel label, press ▲ / ▼ to select **Label Clear**, and then press **ENTER/CH LIST**.

Manual TV station presetting

The Auto Tuning process stores all available stations in the reception area. However, some stations with weak or poor reception may not be detected. If this is the case and you still want to store these stations in your TV, press the **ATV/DTV** button to enter ATV or DTV mode, and then follow the steps below.



Note:

- Under a normal receiving condition, the station search will stop automatically at the best receiving position. That picture will appear without disturbance. This receiving position will be automatically saved. You do not need to fine tune it.
  In the rare case of bad reception, the station search might not stop at the best receiving position. The picture display in that station will appear disturbed (e.g. wavy lines). Only in this case will you need to manually fine tune the station's position.

1 Press **MENU SETUP** or **DIGITAL MENU** to display the Main Menu screen.

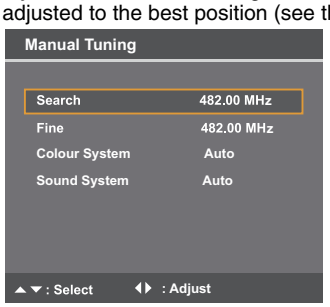
2 Press ▲ / ▼ to select the **Channel** menu, and then press **ENTER/CH LIST**.

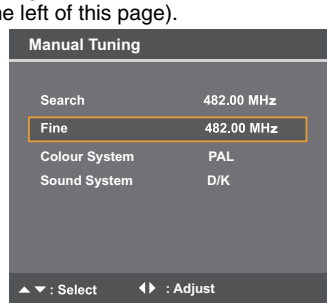
3 Press ▲ / ▼ to select **Manual Tuning**, and then press **ENTER/CH LIST**.

4 **In ATV mode:**

(1) Press ▲ / ▼ to select **Search**, and then press ◀ / ▶ to start tuning. It will stop at each station that has good reception.

(2) If you like to use fine-tuning, select **Fine**. Press ◀ / ▶ to fine tune until the station is adjusted to the best position (see the note on the left of this page).





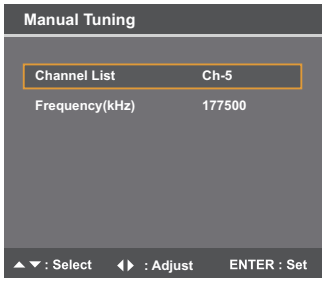
(3) To select a colour system for your TV, select **Colour System**. Press ◀ / ▶ to select the TV system applicable to your area: **Auto, PAL** or **SECAM**.

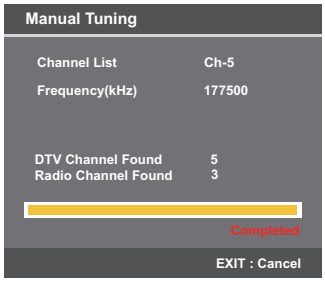
(4) To select a sound system, select **Sound System**. Press ◀ / ▶ to select the sound system applicable to your area: **Auto**, **B/G, I, D/K** or **L/L'**.

In DTV mode:

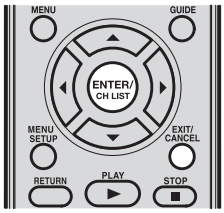
- When **Ant/Cable In** is set to **Antenna**, you can select a channel number for Channel List by pressing ◀ / ▶. The corresponding tuning frequency for the channel will be set. Or you can enter a frequency value to start tuning.

  After setting the channel, press **ENTER/CH LIST** to start scanning for channels. A progress bar will appear to indicate scanning progress, and a list of services collected from the channel will be listed.





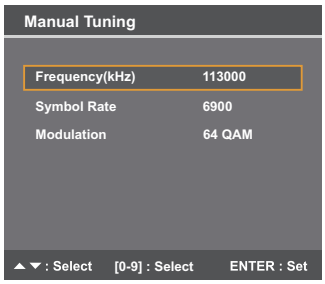
Manual TV station presetting (continued)

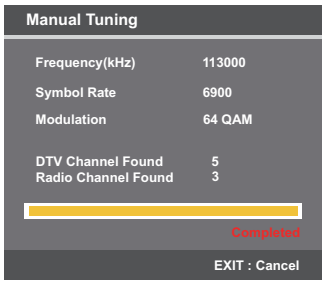


- *When **Ant/Cable In** is set to **Cable**, the following information will be displayed:

- **Frequency(kHz)**: A specific frequency can be input for scanning.
- **Symbol Rate**: A specific baud rate (KS/s) can be input for manual scanning.
- **Modulation**: Select from five QAM modulation options

After setting the channel, press **ENTER/CH LIST** (ENTER/CH LIST) to start scanning for channels.

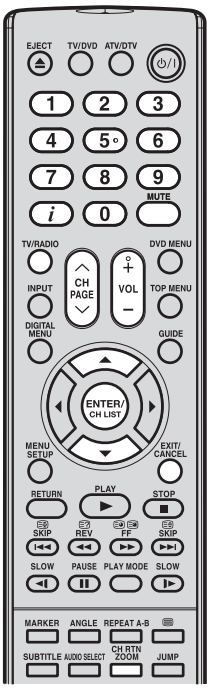




Note:

- This setting cannot be enabled due to DVB-C unavailability. Please check if this function is supported in the place you live, and if the latest firmware has been installed on your TV (see **DVB-C Notice** on page 2 and **DVB-C function notice** on page 12).

5 Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.



Note:

- If the built-in tuner does not receive anything (e.g. if no antenna is connected) during TV operation, the TV will change to standby mode after approx. 15 minutes.
- Press **TV/RADIO** to switch between the three service categories: TV, Radio, and Data.

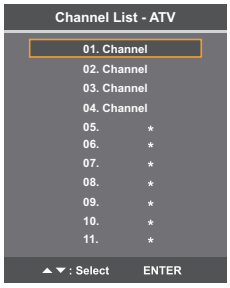
Channel selection

Use the **number buttons 0-9**. For example:

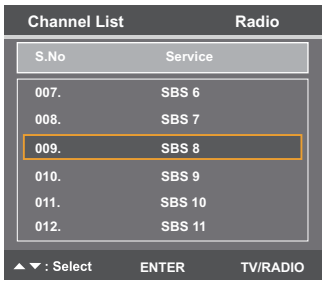
- CH 2: Press **0** and within 2 seconds, press **2**. The TV will switch to CH 2.
- CH 29: Press **2** and within 2 seconds, press **9**. The TV will switch to CH 29.

(1) Press **CH** ∧ / ∨ to select a channel. This takes approx. 2 seconds to switch from one channel to another. Only channels saved in the TV and are active can be displayed. Skipped channels will not appear (see page 20).
The Channel List shows a list of all receivable programmes. They are located in channels 1 to 99 for ATV mode and 1 to 9999 for DTV mode.

(2) Press **ENTER/CH LIST** to display the Channel List.



Analogue Channel List



DTV Channel List

(3) Press ▲ / ▼ to select a desired channel, and then press **ENTER/CH LIST** to display the selected channel.

(4) Press **EXIT/CANCEL** to exit.

Toggle between the list of TV, Radio, and Data services (DTV mode only)

(1) Press **TV/RADIO** to switch between the TV, Radio, and Data mode.

(2) If you press **ENTER/CH LIST** when you are in Radio mode, the Channel List menu will display the list of Radio services.
If you wish to view the list of Data services without exiting the current menu, press **TV/RADIO** once.
If you wish to view the list of TV services without exiting the current menu, press **TV/RADIO** again.

QuickView

Press **CH RTN ZOOM** to go back to the last selected channel.

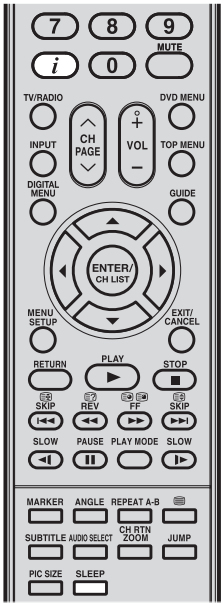
Volume adjustment

Press **VOL +/–** to adjust the volume. The volume level indicator shows the current volume, and will disappear after 4 seconds of inactivity.

Mute

Press **MUTE** to turn off the sound. The TV/DVD's sound will be turned off and **Mute** will appear on-screen. Press **MUTE** again or **VOL +/–** to turn the sound on.

Basic operation (continued)



Information display

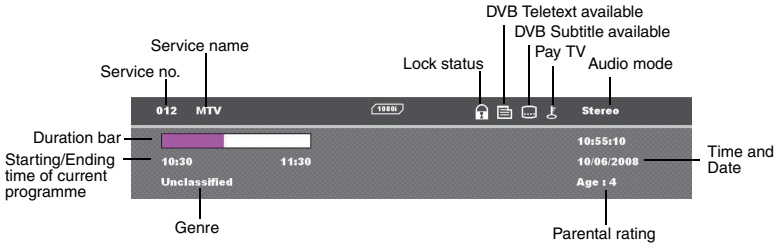
In ATV mode:

Press (i) to display the channel number and sleep timer settings information on the screen. Current settings for the sound mode, picture size, and resolution (if in use) are also displayed. The information will appear for approx. 5 seconds.

In DTV mode:

When you switch channels, a channel banner is displayed for a few seconds. The channel banner shows information such as current date and time, DTV channel number, station, and messages from the DTV service providers, etc.

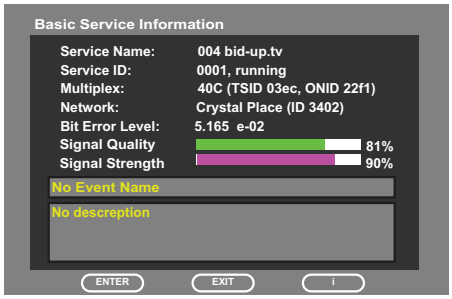
(1) While watching a programme, press (i) to display the channel banner. The channel banner will disappear after a set time. You can change how long the channel banner is displayed (see page 43 for details).



Note:

- In the **Basic Service Information**, the name of channels and services appears in full not in abbreviation.
- Depending on the availability of DVB-C function, the **Basic Service Information** here may be different from that shown on your TV.
- Subtitles are displayed on the channel banner, but some broadcasts may not provide this service.

(2) Press (i) again to display the **Basic Service Information** screen.
You can verify the signal strength and quality of the selected service here. If necessary, adjust the direction of antenna to obtain the maximum signal strength.
A short event description of an event can also be viewed here. For an extended description of an event, you can view it in the EPG menu (see page 50).



(3) Press (i) to remove the display of the **Basic Service Information**.

Sleep timer

Press **SLEEP** (SLEEP) to set the sleep timer to turn off your TV/DVD after a set length of time. Each time you press the **SLEEP** button, the timer setting increases in 10 increments (Off, 0h 10m, 0h 20m, ..., 2h 0m). After the setting is programmed, the display will begin 30 seconds in advance to remind you that the sleep timer is enabled.

To confirm the sleep timer setting, press **SLEEP** (SLEEP) and the time remaining will appear for a few seconds. To cancel the sleep timer, press the **SLEEP** button repeatedly until **Off** appears.

Teletext

A teletext service offers a range of text-based information, typically including news stories, sport articles, weather forecasts, and TV schedules. Information is sent page by page. The TV can store up to 256 pages, but they can only be accessed once they have been stored.

Fastext/TOPtext

The Fastext/TOPtext is teletext with a special directory.

On the lower part of the screen there are four different coloured fields (red, green, yellow, and blue). These fields lead directly to the pages shown within. The coloured buttons on the remote control correspond to the coloured fields. Press the appropriate coloured button in order to activate the desired coloured field.

Switch Teletext on/off

Teletext is not available for all channels.

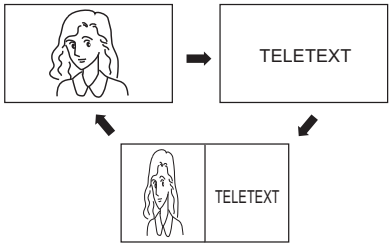
(1) Select a channel that shows teletext.

(2) Press . You will now see a teletext page. (If “100” is shown without any text information, it may mean that the current channel does not support teletext.)

(3) Press again to switch to split TV-teletext display mode. You will now see both the teletext page and the TV programme.

(4) Press once more to close the teletext screen.

(5) Press again in order to switch teletext on. The last page which was stored is now shown.



Note:

- You cannot change channels when there is a teletext display. Turn off the teletext if you want to switch to another channel.

Select page

Press **CH** ∧ / ∨ until the page you want appears. Or use the **number buttons 0-9** to enter the page number.

If you input the wrong page number, enter 3 random numbers first, and then enter the number you want. Or press one of the coloured teletext buttons, so the page from Fastext/TOPtext will be shown.

Hold page

Some pages are divided into sub-pages by channel. Sub-pages are automatically displayed when they are transmitted. In order to hold a page, press .

Press again to display the next sub-page.

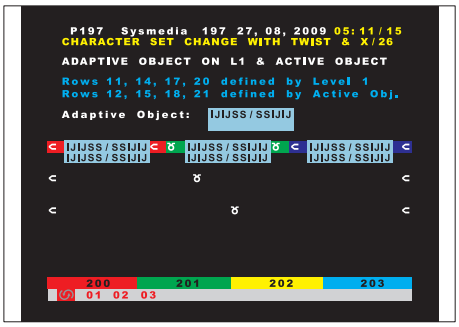
Directly select a sub-page

Sub-page numbers are displayed below the coloured bar. Press ◀ / ▶ to select a sub-page, or highlight to display a sub-page when it is transmitted. You can directly select a sub-page if required.

Example:

On the screen below, page 197 offers the sub-page service. At the bottom of the screen, sub-pages (01/02/03) available for page 197 are displayed.

To select a sub-page:


P197 Sysmedia 197 27, 08, 2009 05:11/15
CHARACTER SET CHANGE WITH TWIST & X/26
ADAPTIVE OBJECT ON L1 & ACTIVE OBJECT
Rows 11, 14, 17, 20 defined by Level 1
Rows 12, 15, 18, 21 defined by Active Obj.
Adaptive Object:
200
201
202
203
01 02 03

(1) Press in order to select 01 sub-page.

(2) Press again in order to switch to 02 sub-page.

(3) Press once more to switch to 03 sub-page.

Enlargement

Press to increase the size of teletext display - either the upper or lower half of the screen is enlarged. Each time you press , the display toggles between half-screen and full-screen display mode.

Answering quiz questions

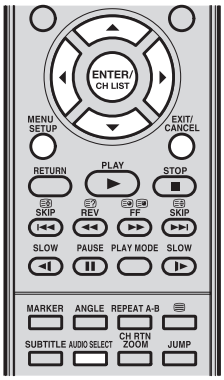
Some teletext pages contain quiz questions. Answers to these questions are hidden within the page. Press to reveal the answers.

Page 100

Press **ENTER/CH LIST** to show page 100 of a multi-page teletext.

Stereo reception with the built-in analogue tuner

The TV's built-in tuner can detect and receive NICAM stereo broadcasts automatically.



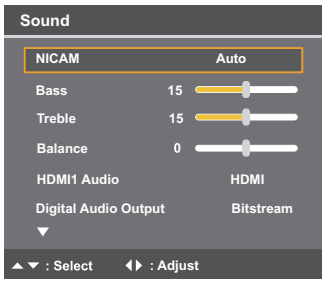
Note:

Bad reception can cause disturbance to stereo sound. In some cases, NICAM stereo sound may not be received correctly. In the case of two-channel sound reception, press **AUDIO SELECT** (AUDIO SELECT) to switch to a sound channel with better audio quality.

NICAM stereo sound reception

1 Press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.
Press ▲ / ▼ to select **Sound**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

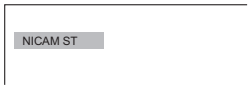
2 Select **NICAM**, and then press ◀ / ▶ to select **Auto** or **Off**.
Select **Off** if you do not want to receive NICAM sound.



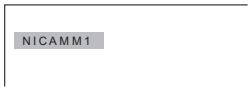
3 Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.

The following types of broadcast are possible with NICAM transmissions:

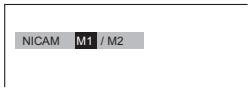
- **NICAM ST:** Illuminates for approx. 4 seconds when a NICAM STEREO broadcast signal is received.



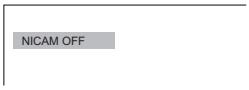
- **NICAM M1:** Illuminates for approx. 4 seconds when a NICAM MONO A broadcast signal is received.



- **NICAM M1/ M2:** Illuminates for approx. 4 seconds when a NICAM MONO A and MONO B broadcast signals are received.

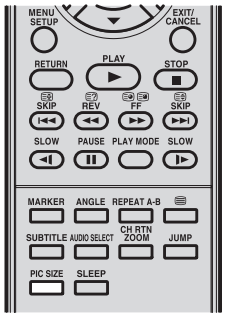


- **NICAM OFF:** Appears for approx. 4 seconds when a NICAM signal is received and the NICAM Off option is selected.



Picture format

The broadcaster may transmit a widescreen signaling (WSS) signal which can determine the correct height/width of pictures and have it set automatically when the setting **Auto** is selected. If you want to change this setting, you can select from the formats listed below.



Note:

- When the picture size is set to **Auto** mode, the aspect ratio will automatically change according to the WSS signal, if it is available. This may either be transmitted by a broadcasting TV channel, or via a recording from a VCR, etc. Any WSS signal received will only be effective in Auto mode. However, some DVD players/digital decoders etc. will automatically switch the aspect ratio via a SCART input (Pin 8 switching), even if **Auto** is not selected.
  In any case, if you want to change an aspect ratio to the one selected automatically, you can change it by pressing **PIC SIZE** PIC SIZE.
- In PC mode, the picture size settings is available only for 16:9 or 4:3 format.
- In HDMI or Component mode, the scanning rates are 720p and 1080i, and the picture size settings is available only for 16:9 or Real (HDMI mode only) format.
- Using the **PIC SIZE** function to change the format of the displayed image (i.e. changing the height/ width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.

Auto picture size

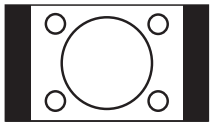
Press **PIC SIZE** PIC SIZE repeatedly until **Auto** appears on the screen.

Picture format setting

Press **PIC SIZE** PIC SIZE repeatedly to scroll through the following options.

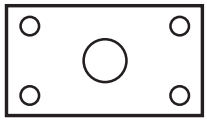
4:3

This mode shows a picture in the standard 4:3 format with vertical black bands on the left and right sides.



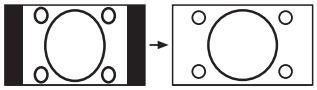
Real (HDMI mode only)

The picture is displayed in its original size.



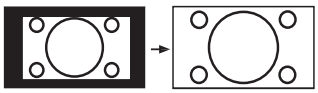
16:9

This mode is used with 16:9 signals from a Digital decoder, DVD player or other external source. This uniformly stretches a 4:3 picture horizontally to fill the screen. (For example, DVDs often store a 16:9 image “anamorphically”, which means that the 16:9 image is stored as a horizontally compressed 4:3 image. Select the 16:9 format to restore the image to its proper 16:9 proportions.)



Cinema

This mode is used to zoom in, or expand pictures with a 4:3 “letterbox” format (with black bars on the top and bottom of the picture) so that they fill more of the screen.



Note:

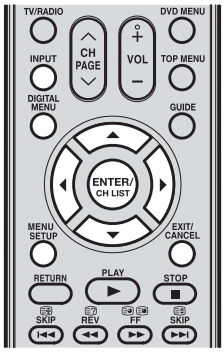
- Using this format will slightly cut off part of the picture due to the image expansion. However, it is possible to scroll the picture up or down to view the cutoff section on the top or bottom part of the picture (see **Vertical Position** on page 30).

14:9

This mode enlarges a standard 4:3 picture to the 14:9 format.

AV colour adjustment

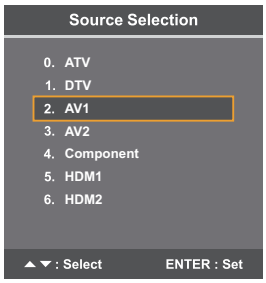
Use the AV Colour menu option to adjust the picture colour settings in AV mode. These settings do not apply when the TV is in any other mode.



Note:

- DVD players that play NTSC DVDs (i.e. multi-region/region code-free) can produce different signals based on the player model. Possible signals include PAL, SECAM, NTSC3.58, NTSC4.43 and PAL60. If you are using an external DVD player, connect it to the TV through the component video jack.

1 Press **INPUT** (INPUT) to select **AV1** or **AV2**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

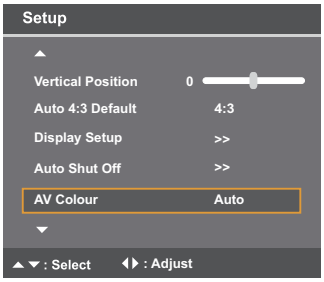


2 Press **MENU SETUP** (MENU SETUP) or **DIGITAL MENU** (DIGITAL MENU) to display the Main Menu screen.

3 Press ▲ / ▼ to select **Setup**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

4 Press ▲ / ▼ to select **AV Colour**, and then press ◀ / ▶ to select the preferred colour system. Options include **PAL, SECAM, NTSC4.43, NTSC3.58**, and **PAL60**.

If you are not certain of the system used in your area or if the setting you have selected causes horizontal stripes to the picture display, select **Auto**.



5 Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.

Other convenience functions

The TV Main Menu has several menu options you can configure to suit your viewing preferences.

Main menu	Selected items		Setup hint
Picture	Picture Setting	Brightness	Adjust the black level. This aspect determines the point where grays become pure black.
		Contrast	Adjust the white level. This aspect determines how bright the brightest whites should appear.
		Sharpness	Adjust the sharpness or softness of the display.
		Colour	Adjust the colour intensity.
		Tint*1	Adjust the balance of the red, green, and blue colours in the display.
		Colour Temperature	Adjust the level of white balance in the display. Available settings include: • Cool - Picture appears with a bluish tint. • Standard - Picture appears more white. • Warm - Picture appears with a reddish tint.
		Backlight	Adjust the backlight level.
		DynaLight	This function automatically strengthens the black colouring of dark areas in the video according to the level of darkness.
	Picture Preference		Select one of the four preset picture modes. • Sports - High contrast display for clear-cut images. • Standard - Picture is viewed in its original display mode. • Movie - Picture quality is suited for viewing under dim lighting conditions to deliver a “cinema” experience. • Memory - When you adjust any of the items in the Picture Setting menu, this mode is automatically applied.
	Picture Size		You can choose from six picture formats to adjust the height/width ratio of the display. See page 27.
	Blue Back	On/Off	You can set the TV to automatically switch the display to a blue screen and mute the sound if the signal is weak or absent.
	PC Setting*2	Hor Position	Adjust the image position horizontally.
		Ver Position	Adjust the image position vertically.
		Clock	Minimise any vertical bars or stripes visible on the screen background.
		Phase	Adjust this option if the computer's display frequency has been set to 60 Hz. This will optimise picture quality by eliminating flickering in the display.
		Auto Adjust	When individual adjustment of PC settings results in rough edges or flickering in the picture display, select Auto Adjust to automatically adjust all settings to their ideal position based on the current VGA signal.
	DNR*3	On/Off	DNR (digital noise reduction) improves picture quality by filtering out unusable data (noise) from a faulty input signal (e.g. a video film in letterbox format or a noisy analogue cable TV signal).
	Auto Brightness Sensor	On/Off	This sensor will detect the ambient light conditions to optimise the backlighting levels. See page 13.
	Reset		Reset all Picture menu settings to their factory preset values.
Sound	NICAM	Auto/Off	Enable or disable the reception of NICAM stereo broadcasts. See page 26.
	Bass		Adjust the low-pitched sounds.
	Treble		Adjust the high-pitched sounds.
	Balance		Adjust the sound balance between the left and right speakers.
	HDMI1 Audio	HDMI/DVI	See pages 77-79.
	Digital Audio Output	Bitstream/PCM	You can select “Bitstream” when AC3 format is available or select “PCM” for other audio format.
	Digital Audio Delay	Off/10-250 ms	This function provides 10-250 mini-seconds delay and no delay options on audio output to adjust lip sync when necessary.
	Reset		Reset all Sound menu settings to their factory preset values.

*1 Adjust Tint if you use an NTSC3.58 MHz or NTSC4.43 MHz signal through one of the AV inputs, and NTSC or Auto has been selected for the AV Colour option.
*2 The PC Setting option can be configured only when the TV tuner input is set to PC mode.
*3 In PC mode, the DNR option cannot be selected.

Other convenience functions (continued)

Main menu	Selected items		Setup hint
Channel	Ant/Cable In	Antenna/Cable	Select between Antenna and Cable for the TV. See pages 16-17.
	Country		Select a country in which you live.
	Auto Tuning		Perform an automatic channel search. See pages 16-17, and 19.
	Manual Tuning		Perform a channel search for stations with weak or poor signal. See pages 21-22.
	Ch Allocation		Customise the channels stored in the TV. See page 20.
Setup	REGZA-LINK Setup		This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK® compatible devices from the TV remote via HDMI connection. See pages 34-35.
	REGZA-LINK Player		See pages 32-33.
	Media Player	Photo/Music/Auto Start	The TV allows you to enjoy photos and music stored on a USB device. See pages 36-42.
	Language Setup	Menu Language	Select a display language.
		Pref. Digital Service Language	Select a digital service language (DTV mode only).
	Subtitle and Audio (DTV mode only)	Subtitle Type	Select a subtitle display type between **Normal** and **For Hard of Hearing** according to your needs. Depending on the TV programmes and your preferences, availability of subtitle language may vary. • **Normal** - The language will be shown based on your priority below. • **For Hard of Hearing** - If this function can be supported by the programme, the substitle specifically designed for the hearing-impaired will be displayed regardless of your choices; otherwise, the default value of **Normal** will be automatically applied.
		Primary Subtitle Language	Select a subtitle language of your first priority for TV programmes.
		Secondary Subtitle Language	Select a subtitle language of your second priority for TV programmes. The language will be shown when the language of your first choice is not available.
		Audio Type	Select an audio language type between **Normal** and **For Hard of Hearing** according to your needs. Depending on the TV programmes and your preferences, availability of audio languages may vary. • **Normal** - The language will be heard based on your priority below. • **For Hard of Hearing** - If this function can be supported by the programme, the language specifically designed for the hearing-impaired will be heard regardless of your choices; otherwise, the default value of **Normal** will be automatically applied.
		Primary Audio Language	Select an audio language of your first priority for TV programmes.
		Secondary Audio Language	Select an audio language of your second priority for TV programmes. The language will be heard when the language of your first choice is not available.
	Audio Description	AD Enable (On/Off)	You can set to receive audio description service to have narration of selected programmes.
		AD Volume	Adjust the audio description volume.
	Timer Setting*1		View the current date and time settings. See page 43.
	Password Setup*1		Set password for TV programmes and movies. See page 44.
	Version		View the software version information. See page 45.
	Software Upgrade		See page 46.
	Common Interface		See page 47.
	Vertical Position		When the picture format is set to **Cinema** mode (see page 27), you can adjust the vertical position of the display to view the top and bottom sections that have been cut off due to the image expansion. Press ◀ / ▶ to adjust the vertical position of the picture by up to +10 and downwards by up to -10.

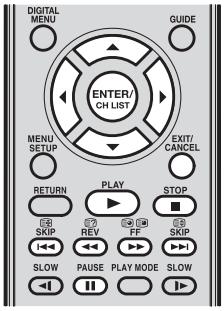
*1 Timer Setting option can be configured only when the TV tuner input is set to DTV mode.
The Password Setup and Display Setup option can be configured only when the TV tuner input is set to DTV mode.

	Auto 4:3 Default*1	4:3/16:9	Select the default picture size for a 4:3 picture. This picture can either be displayed in its original 4:3 format or expanded to 16:9 proportions.
	Display Setup*2		See page 43.
	Auto Shut Off	No Signal	This option automatically shuts the TV off when no signal has been detected for 15 minutes (not applicable to DVD mode), or no button has been pressed for 4 hours.
		No Operation	
	AV Colour*3	Auto/ PAL/ SECAM/ NTSC4.43/ NTSC3.58/ PAL60	Select the colour system for the display when using signal from the audio/video terminals. See page 28.
	Rec Screen Status	On/Off	This function is used in conjunction with the Timer function included as part of the Digital EPG. It determines whether the TV screen switches on or not when a programmed Timer setting begins. See page 51 for further details.
	Reset		Reset all TV settings to their factory preset values. Once the TV reset process has been completed, the TV will automatically turn off. Press ⏻/I on the remote control to turn it back on.

*1 In TV mode, Auto 4:3 Default is only available when the Picture Size is set to Auto.
In Component mode, Auto 4:3 Default is only available when there is a 480i/576i signal.
*2 Timer Setting option can be configured only when the TV tuner input is set to DTV mode.
The Password Setup and Display Setup option can be configured only when the TV tuner input is set to DTV mode.
*3 PAL60 is the colour system used in Germany; NTSC3.58 is used in the U.S. If the picture shows horizontal stripes, set this option to Auto.

Using REGZA-LINK®

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK® compatible devices from the TV remote via HDMI connection (see page 79).



When the **Enable REGZA-LINK** in the **REGZA-LINK Setup** menu (see page 35) is set to **On**, the following REGZA-LINK® functions will be enabled.

REGZA-LINK® playback device (DVD player, etc.) control

With your TV's remote control, or using the **REGZA-LINK Player** menu, you can control the connected REGZA-LINK® playback device you are watching.

Available remote control key functions:

PLAY ▶
Begin playback.

STOP ■
Stop playback.

PAUSE ▮▮
Pause the picture during play or record mode.

SKIP ▶▶|
Skip forward.

SKIP |◀◀
Skip backward.

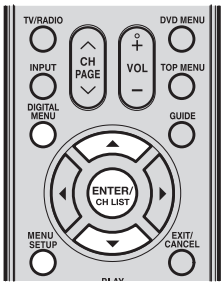
FF ▶▶ / REV ◀◀
Fast-forward/Fast-reverse.

ENTER/CH LIST (ENTER/ CH LIST)
Enter contents menu, etc.

▲ / ▼ ◀ / ▶
Navigate contents menu, etc.

EXIT/CANCEL (EXIT/ CANCEL)
Close the menu.

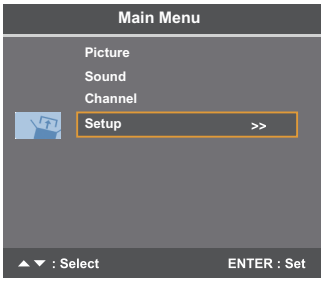
Note:
- These functions depend on the devices connected.



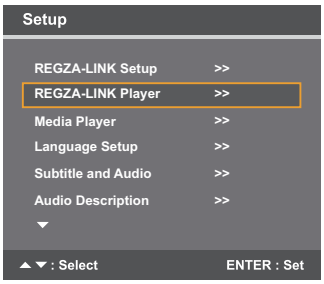
REGZA-LINK® Player menu

1 Press **MENU SETUP** (MENU SETUP) or **DIGITAL MENU** (DIGITAL MENU) to display the Main Menu screen.

2 Press ▲ / ▼ to select **Setup**, and then press **ENTER/CH LIST** (ENTER/CH LIST).



3 Press ▲ / ▼ to select **REGZA-LINK Player,** and then press **ENTER/CH LIST** (ENTER/CH LIST).



4 Press ▲ / ▼ to select the item you want to control and then press **ENTER/CH LIST** (ENTER/CH LIST).

REGZA-LINK® Player menu functions

Power
Turn the selected device on and off.

Root Menu
Access the root menu of a disc or the selected device.

Contents Menu
Access the contents list when you press **ENTER/CH LIST** (ENTER/CH LIST). At this time, the **REGZA-LINK Player** menu will appear.

Setup Menu
Access the setup menu of a DVD player.

Top Menu
Access the top menu of a disc during playback.

Menu
Access the menu of a disc during playback.

Note:
- These functions depend on the discs and the devices that are connected.
- The **REGZA-LINK Player** item will be disabled in the following conditions:
  - A non-HDMI input is currently selected.
  - The **Enable REGZA-LINK** item is set to **Off**.
  - The connected CEC device is not a playback or recording device.

Using REGZA-LINK® (continued)

REGZA-LINK® input source selection

If a REGZA-LINK® device with HDMI switching capability (e.g. Audio Receiver) is connected to the HDMI input, you can select another REGZA-LINK® device that is connected to the master HDMI device using **INPUT** INPUT on the remote control or **INPUT/ENTER** on the TV control panel.

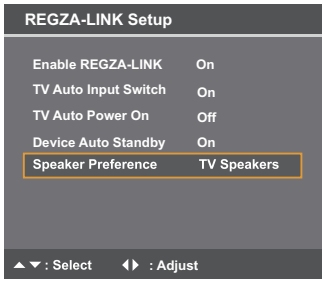
VOLUME and MUTE controls of Audio Receiver

With your TV's remote control, you can adjust or mute the sound volume of a REGZA-LINK® compatible Audio Receiver.

- VOL adjusts the volume level.
- MUTE turns off the sound.

To use this function

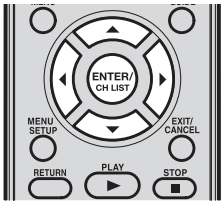
1 Set **Speaker Preference** to **Audio Receiver** in the **REGZA-LINK Setup** menu.



2 Confirm that a connected REGZA-LINK® device (such as a DVD player, etc.) is selected for the Audio Receiver input source.

Note:

- You can also use this function when the audio receiver is connected to the TV's **DIGITAL AUDIO OUT** terminal (not HDMI connection). In this case, select a digital audio input mode on the Audio Receiver.
- These functions depend on the device connected.



Note:

- When you turn on a REGZA-LINK® compatible audio receiver, change its input source, or adjust the sound volume, the sound will be output from the audio receiver's speakers even if **TV Speakers** has been selected. Turn the TV off and on again to output the sound from the TV speakers.

Other REGZA-LINK® functions

When the **Enable REGZA-LINK** and each item in the **REGZA-LINK Setup** menu are set to **On**, the following functions will be enabled.

TV Auto Input Switch

If a connected HDMI device starts playing video or audio, the TV will automatically switch to the appropriate HDMI input.

TV Auto Power On

If a device is turned on, the TV turns on automatically.

Device Auto Standby

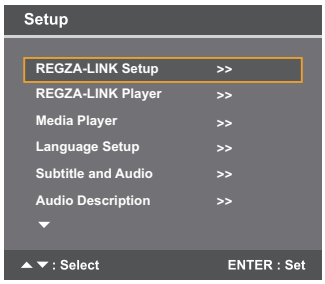
If the TV is turned off, the TV will send a message to turn off all of the devices connected to the TV.

Speaker Preference

From this item, you can set your audio output preference to the TV speakers or the audio receiver speakers. When this item is set to **Audio Receiver**, the TV remote can be used to adjust or mute the volume of the audio receiver. You will not be able to select this item unless a REGZA-LINK® compatible audio receiver is connected.

To set the REGZA-LINK® Setup

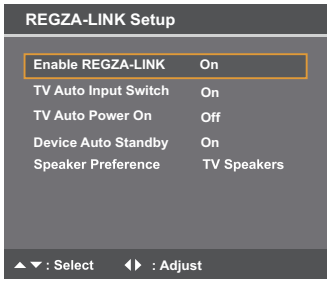
1 From the **Setup** menu, press ▲ / ▼ to select **REGZA-LINK Setup** and then press **ENTER/CH LIST** (ENTER/CH LIST).



2 Press ▲ / ▼ to select **Enable REGZA-LINK** and then press ◀ / ▶ to select **On.**

Note:

- If you set **Enable REGZA-LINK** to **Off**, you will not be able to select the other items.



3 Press ▲ / ▼ to select the **REGZA-LINK Setup** item you want to use, and then press ◀ / ▶ to select **On** or your desired mode to confirm your choice.

- TV Auto Input Switch: On/Off
- TV Auto Power On: On/Off
- Device Auto Standby: On/Off
- Speaker Preference: TV Speakers/Audio Receiver

Using the Media Player

The TV allows you to enjoy photos and music stored on a USB device.

Media Player information

Required device

USB device: USB Mass Storage Class devices (MSC)

Note:
- Connectivity is not guaranteed for all devices.
- Connect the USB device to the TV directly.
- Do not use a USB hub.

Media Player playback reminders

- The file systems supported by Media Player are FAT12, FAT16, and FAT32.
- The maximum number of files stored in each folder is 2000.
- It may take some time to open a file of large size.
- Do not remove the USB device while in use.
- Only limited types of U3 USB device are supported. Therefore, it is suggested not to use U3 USB for playing Media Player.

File name display reminders

- Most characters in European languages (both upper and lower case), numbers, and the underscore symbol (_) can be displayed.
- Non-supported characters will be replaced with a hyphen (-).

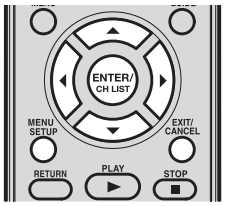
Media Player encoding information

Music
- File format: MPEG-1Audio (MP3)
- Sampling frequency: 32, 44.1, 48 kHz
- Bit rate: 32, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256 kbps
- ID3: ver.1, ver.2
- Supported file extension: .mp3

Photo
- File format: JPEG EXIF ver 2.2 (DCF ver 1.1)
- Maximum viewable resolution: 8192 x 8192 pixels
- Maximum photo size: 9MB
- Supported file extension: .jpg

IMPORTANT INFORMATION

You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.



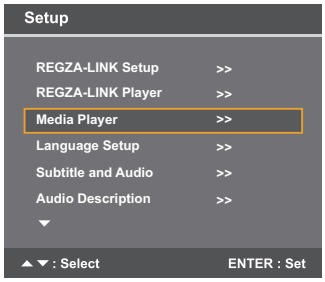
Basic operation

Auto Start

1 Press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.

2 Press ▲ / ▼ to select **Setup**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

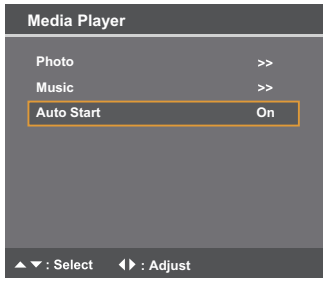
Press ▲ / ▼ to select **Media Player,** and then press **ENTER/CH LIST** (ENTER/CH LIST).



3 Press ▲ / ▼ to select **Auto Start**, and then press ◀ / ▶ to select **On**.

Note:

- If **Auto Start** is set to **Off**, you can start the Media Player manually.

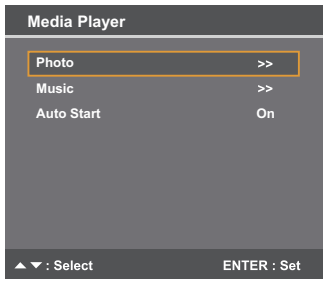


To set Auto Start

1 Insert USB device into the **USB** terminal on the left side of the TV.

2 A prompt will appear. Press ◀ / ▶ to select **Yes,** and then press **ENTER/CH LIST** (ENTER/CH LIST).

3 Press ▲ / ▼ to select **Photo** or **Music** and then press **ENTER/CH LIST** (ENTER/CH LIST). The photo thumbnail view or music list will appear.



To set manual Start

1 Insert USB device into the **USB** terminal on the left side of the TV.

2 Press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.

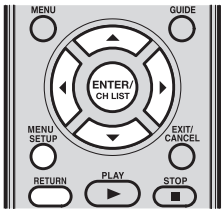
3 Press ▲ / ▼ to select **Setup**, and then press **ENTER/CH LIST** (ENTER/CH LIST).
Press ▲ / ▼ to select **Media Player,** and then press **ENTER/CH LIST** (ENTER/CH LIST).

4 Press ▲ / ▼ to select **Photo** or **Music** and then press **ENTER/CH LIST** (ENTER/CH LIST).
The photo thumbnail view or music list will appear.

To close the Media Player

Press **EXIT/CANCEL** (EXIT/CANCEL). The TV will return to the last-viewed channel or video input.

Using the Media Player (continued)

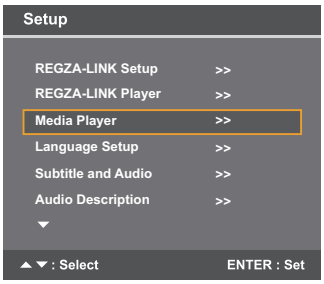


Viewing JPEG files

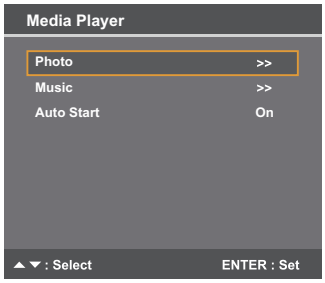
Single View mode

1 Press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.

2 Press ▲ / ▼ to select **Setup**, then press ▲ / ▼ to select **Media Player,** and then press **ENTER/CH LIST** (ENTER/CH LIST) .



3 Press ▲ / ▼ to select **Photo,** and then press **ENTER/CH LIST** (ENTER/CH LIST) .



4 When the thumbnail view appears, press ▲ / ▼ / ◀ / ▶ to select a file or folder.

Note:
- An incompatible JPEG file will be displayed with an icon.

5 Press **ENTER/CH LIST** (ENTER/CH LIST) to begin viewing the selected file in full screen or to open the selected folder.

Note:
- When in sub-directory, press ▲ / ▼ / ◀ / ▶ to select the first folder named ".." on the upper-left corner to return to the previous photo mode.

6 Press ▶ to view the next file, or press ◀ to view the previous file.

Slide Show mode

1 To switch to the Slide Show mode, press **ENTER/CH LIST** (ENTER/CH LIST) while in Single View mode.

To return to Single View mode, press **ENTER/CH LIST** (ENTER/CH LIST) again.

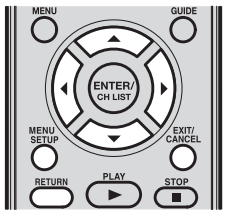
2 Press ▶ to view the next file, or press ◀ to view the previous file.

Rotating the image

When in Single View mode, press ▲ to rotate the image 90 degrees clockwise, or press ▼ to rotate the image 90 degrees counterclockwise.

Returning to the thumbnail

Press **RETURN** (RETURN) while in Single View mode or Slide Show mode.



Note:

- The sleep timer setting in the Media Player **Quick Menu** or TV **Setup** Menu will override the previous setting of each other.

Using the photo Quick Menu

You can select your preferred photo viewing settings from the photo **Quick Menu**.

1 From the photo Single View, Slide Show or thumbnail mode, press **MENU SETUP** (MENU SETUP) to enter the **Quick Menu**.

Note:

- The Quick Menu items of thumbnail and Single View/Slide Show modes are different.

2 Press ▲ / ▼ to select the item you want to adjust.

3 Press ◀ / ▶ to select your preferred setting.

4 Press **RETURN** (RETURN) to return to the previous photo view mode, or press **EXIT/CANCEL** (EXIT/CANCEL) to close the Quick Menu.

Quick Menu setting details

Sort

To set the file sorting preference in thumbnail view.

- **Title:** to sort the files by file name.
- **New:** to sort the files from new to old by file date.
- **Old:** to sort the files from old to new by file date.

Note:

- This Quick Menu item is only available for access from the thumbnail view mode.

Interval Time

To set a time interval to view photos at your preferred intervals: 3sec, 5sec, 10sec, 15sec, 30sec, 60sec, or 90sec.

Repeat

To display photos in the same folder repeatedly: On/Off.

Background Music Select

To select background music for the photo display from the music stored in the USB device (see page 40).

Note:

- This Quick Menu item is only available for access from Single View/Slide Show modes.

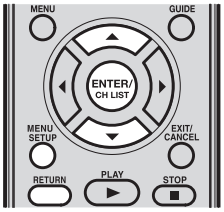
Sleep Timer

To set the sleep timer to turn off the Media Player, as well as the TV (up to 120 minutes in 10-minute increments).

Note:

- This Quick Menu item is only available for access from Single View/Slide Show modes.

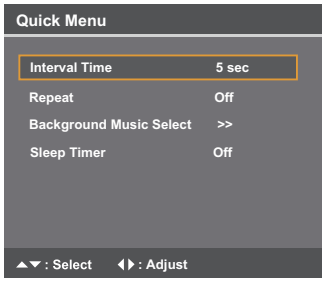
Using the Media Player (continued)



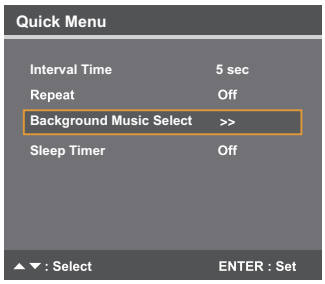
Setting background music for photo mode

You can select music from the music list stored in the USB device to be played back in photo mode.

1 From the photo Single View or Slide Show mode, press **MENU SETUP** (MENU SETUP) to enter the **Quick Menu**.



2 Press ▲ / ▼ to select **Background Music Select,** and then press **ENTER/CH LIST** (ENTER/CH LIST).



3 Press ▲ / ▼ to select your desired music, and then press **ENTER/CH LIST** (ENTER/CH LIST) to play the music.

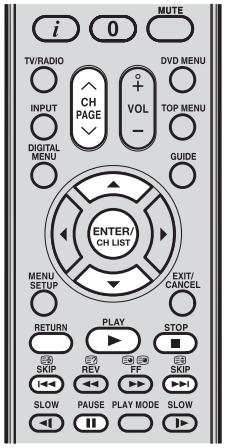
4 Press **RETURN** (RETURN) repeatedly to return to the previous photo mode with the selected music on.

To stop/pause music playback or select another music:

Go to the music list.

Note:

- The music will be played back in accordance with the repeat setting set in the music **Quick Menu** (see page 42).



Note:

- If no button on the remote control or TV control panel is pressed for 60 seconds after starting music playback, the TV will enter screen saver mode. Press any button but ⏻/I to return to music list mode.

Listening to MP3 files

Besides viewing JPEG files, you can also listen to the music files stored in the USB device.

1 From **Media Player** menu, press ▲ / ▼ to select **Music** and then press **ENTER/CH LIST** (ENTER/CH LIST).

2 When the list appears, press ▲ / ▼ to select a file or folder.

3 Press **ENTER/CH LIST** (ENTER/CH LIST) to begin playing the selected music file or to open the selected folder.

4 Press **RETURN** (RETURN) or the first folder named ".." on the top of the list to return to the upper folder.

Using the remote control button in music playback

You can use the remote control buttons listed below to control the music playback.

PLAY ▶ / ENTER/CH LIST (ENTER/CH LIST)

Begin music playback.

STOP ■

Stop music playback.

PAUSE ▮▮

Pause music playback.

SKIP ▶▶|

Skip to play next music file.

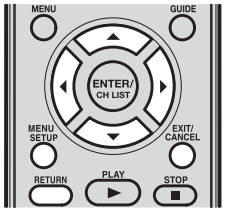
SKIP|◀◀

Skip to play previous music file.

(CH PAGE)

Press ∧ to move to the previous page, or press ∨ to move to the next page.

Using the Media Player (continued)



Note:

- The sleep timer setting in the Media Player **Quick Menu** or TV **Setup** Menu will override the previous setting of each other.
- If **Enable REGZA-LINK** in the **REGZA-LINK Setup** menu is set to **Off** or no amplifier is detected, the **Speaker** item will be disabled.

Using the music Quick Menu

You can select your preferred music playback settings from the music **Quick Menu**.

1 From the music list or music playback mode, press **MENU SETUP** (MENU SETUP) to enter the **Quick Menu**.

Note:

- The Quick Menu items of music list and music playback modes are different.

2 Press ▲ / ▼ to select the item you want to adjust.

3 Press ◀ / ▶ to select your preferred setting.

4 Press **RETURN** (RETURN) to return to the previous menu or music mode, or press **EXIT/ CANCEL** (EXIT/ CANCEL) to close the Quick Menu.

Quick Menu setting details

Sort

To set the file sorting preference in music list.

- **Title:** to sort the files by file name.
- **New:** to sort the files from new to old by file date.
- **Old:** to sort the files from old to new by file date.

Note:

- This Quick Menu item is only available for access from the music list.

Repeat

To set preferred music repeat mode.

- **1:** to repeat the current playing music file.
- **All:** to repeat all the music files in the folder where the current playing file is.
- **Off:** to disable music repeat.

Sound

To adjust the audio quality: **Bass/Treble/Balance**.

Note:

- This Quick Menu item is only available for access from music playback mode.

Sleep Timer

To set the sleep timer to turn off the Media Player, as well as the TV (up to 120 minutes in 10-minute increments).

Note:

- This Quick Menu item is only available for access from music playback mode.

Speaker

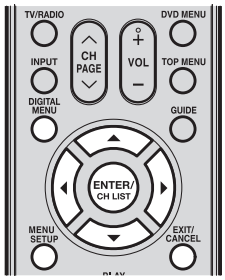
To select the audio output preference.

- **TV Speakers:** to output the music from the TV's built-in speakers.
- **Audio Receiver:** to output the music from a connected REGZA-LINK® compatible audio receiver. (For more information, please see page 35.)

Note:

- This Quick Menu item is only available for access from music playback mode or when a REGZA-LINK® compatible audio receiver is connected.

Display setup/Timer setting (DTV mode only)

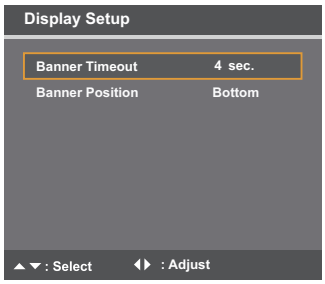


Display Setup

1 Press **MENU SETUP** or **DIGITAL MENU** to display the Main Menu screen.

2 Press ▲ / ▼ to select the **Setup** menu, and then press **ENTER/CH LIST**.

3 Press ▲ / ▼ to select **Display Setup**, and then press **ENTER/CH LIST**.
The **Display Setup** menu appears.



4 Press ▲ / ▼ to select an item, and then press ◀ / ▶ to change each setting.

Banner Timeout	1 sec, 2 sec... 7 sec.	Select how long the service banner information appears on the screen.
Banner Position	Top	Select whether the service banner information appears on the top or bottom of the screen.
	Bottom	

5 After all the changes are made, press **EXIT/CANCEL** to return to the normal screen.

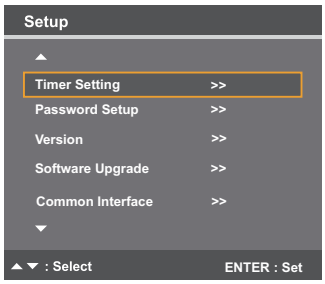
Timer Setting

If the time displayed on the Channel banner differs from the actual time, it can be corrected.

1 Press **MENU SETUP** or **DIGITAL MENU** to display the Main Menu screen.

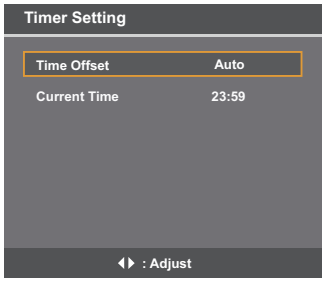
2 Press ▲ / ▼ to select the **Setup** menu, and then press **ENTER/CH LIST**.

3 Press ▲ / ▼ to select **Timer Setting**, and then press **ENTER/CH LIST**.



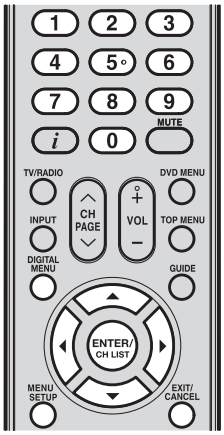
4 If the time displayed on the Channel banner differs from the actual time, adjust **Time Offset** with the ◀ / ▶ button until the correct time is shown.

Note:
- Normally, this can be done by selecting **Auto**.



5 After all the changes are made, press **EXIT/CANCEL** to return to the normal screen.

Password setup (Parental lock) (DTV mode only)



Note:

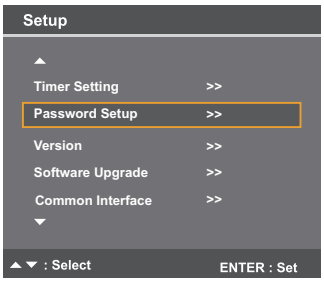
- There are 15 age-based ratings, ranging from “4” (years old) to “18” (years old), “None” and “Block All”. For example, if the parental lock is set to “8” (years old), only the services with parental rating of “8” (years old) and under will be viewable without entering the password.
- You will be prompted to enter the password when you set a new parental rating.
  You can set the new parental rating only when you enter the password correctly; otherwise the old parental code will be retained.

Password Setup (Parental lock)

This feature allows you to have parental control of services based on your viewing preferences. Once a service is protected with a password, it cannot be viewed unless the correct password is provided.

1 Press **MENU SETUP** (MENU SETUP) or **DIGITAL MENU** (DIGITAL MENU) to display the Main Menu screen.

2 Press ▲ / ▼ to select the **Setup** menu, and then press **ENTER/CH LIST** (ENTER/CH LIST).
Press ▲ / ▼ to select **Password Setup**, and then press **ENTER/CH LIST** (ENTER/CH LIST).
The **Enter Password** window will appear.



3 Use the **number buttons (0–9)** to key in “0000”. This is the factory default password.

4 Press ▲ / ▼ to select **Parental Lock**, and then press ◀ / ▶ to select a preferred parental rating (see Note).
Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.

5 You can also change the password using the Change Password option.
Press ▲ / ▼ to select **Change Password**, and then press **ENTER/CH LIST** (ENTER/CH LIST) to enter a new password (0 to 9).
Make sure to remember this password.
Re-enter the same password again for confirmation.
Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.

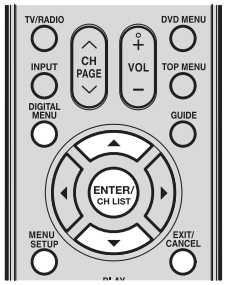
While toggling between channels, if a service with parental rating is selected, you will be asked to enter the password to view that channel. If the channel you are currently watching supports a parental rating, the rating will also be displayed in the Channel banner menu (see page 24).

IMPORTANT NOTE ON RESETTING THE PASSWORD

We suggest that you remove the following instructions from this owner’s manual to prevent children from reading it.

If you forget your password, follow the instructions below to reset the password.

Press (i) 4 times within 5 seconds while the TV is in password input mode. This allows you to reset your password.



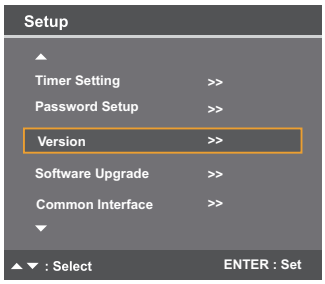
Version

You can check the software version information.

1 Press **MENU SETUP** (MENU SETUP) or **DIGITAL MENU** (DIGITAL MENU) to display the Main Menu screen.

2 Press ▲ / ▼ to select the **Setup** menu, and then press **ENTER/CH LIST** (ENTER/CH LIST).

3 Press ▲ / ▼ to select the **Version** menu, and then press **ENTER/CH LIST** (ENTER/CH LIST).



The software version will be displayed.

4 Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.

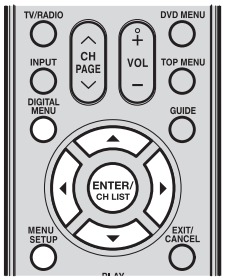
Note:

- Version check also applies to ATV mode.

Note:

- The software version printed here in the manual is used as an example only. Please refer to your TV for the latest version.

Software upgrade (DTV mode only)



Note:

- Do not disconnect the AC cord when the software upgrade is in progress, as this may cause the upgrade to fail. At this time you cannot use any of the buttons.
- When the TV searches for a software upgrade signal, the message “Please wait...” will appear.

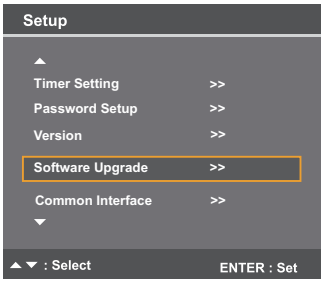
Software Upgrade

Software Upgrade allows you to download the latest software available for the channel.

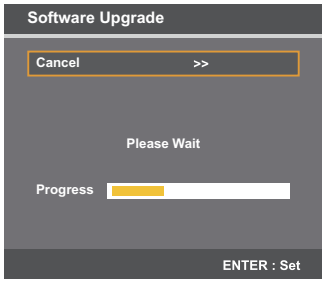
1 Press **MENU SETUP** (MENU SETUP) or **DIGITAL MENU** (DIGITAL MENU) to display the Main Menu screen.

2 Press ▲ / ▼ to select the **Setup** menu, and then press **ENTER/CH LIST** (ENTER/CH LIST).

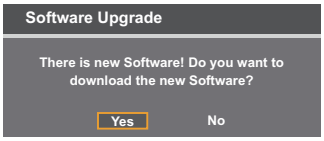
3 Press ▲ / ▼ to select **Software Upgrade**, and then press **ENTER/CH LIST** (ENTER/CH LIST) to select **Start** to check if the TV has the Over Air Download service.



A progress bar appears to indicate scanning progress.

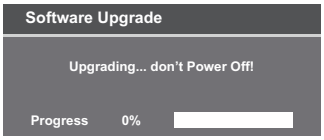


4 If software upgrade is available from the Over Air Download (OAD), a message prompt with option to upgrade software from OAD appears.

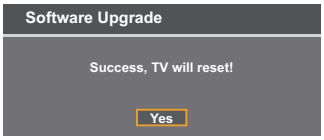


5 Press ◀ / ▶ to select **Yes**, and then press **ENTER/CH LIST** (ENTER/CH LIST). The software upgrade is initiated.

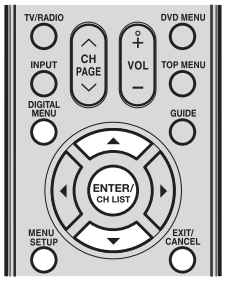
If you select **No**, the update will be cancelled. You can return to watching your TV programmes.



6 Once the process is completed, press **ENTER/CH LIST** (ENTER/CH LIST) to reboot the TV.



Common interface (DTV mode only)



Common Interface

You can access the Common Interface module information from this menu option.

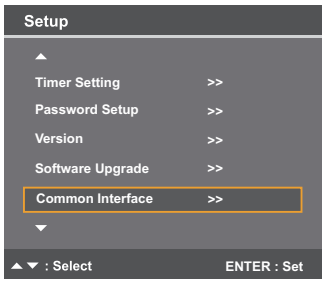
Preparations:

Insert CAM into the DVB Common Interface (C.I.) slot on the side of the TV (see page 8).

1 Press **MENU SETUP** (MENU SETUP) or **DIGITAL MENU** (DIGITAL MENU) to display the Main Menu screen.

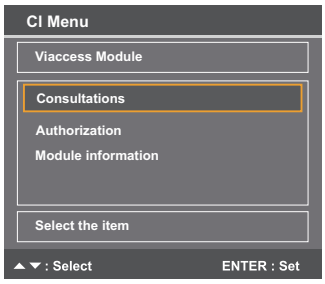
2 Press ▲ / ▼ to select the **Setup** menu, and then press **ENTER/CH LIST** (ENTER/ CH LIST).

3 Press ▲ / ▼ to select **Common Interface**, and then press **ENTER/CH LIST** (ENTER/ CH LIST).



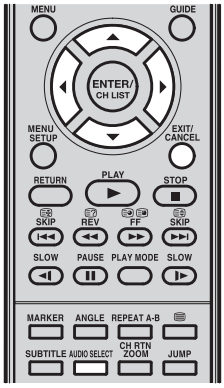
4 The conditional access module (CAM) name is displayed.
Press **ENTER/CH LIST** (ENTER/ CH LIST) to view more information.

5 On the CI menu, options related to the CAM module are displayed on the screen.
Press ▲ / ▼ to select an option, and then press **ENTER/CH LIST** (ENTER/ CH LIST) to view details.



6 Press **EXIT/CANCEL** (EXIT/ CANCEL) to return to the normal screen.

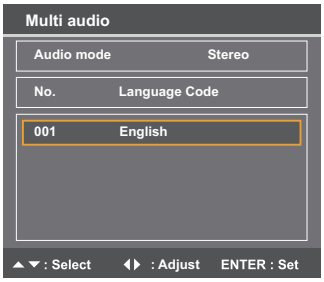
Multi audio (DTV mode only)



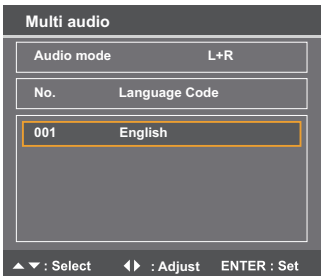
Multi audio

The Multi audio menu enables you to choose your preferred audio mode and DVB (Digital Video Broadcasting) subtitle languages available for the current broadcasting programmes.

1 Press **AUDIO SELECT** AUDIO SELECT to display the **Multi audio** menu.
The Audio mode and Language Code will be displayed, if available.



2 Press ◀ / ▶ to select **Audio mode**.
The **Audio mode** options include: Stereo, Left, Right, and L + R.

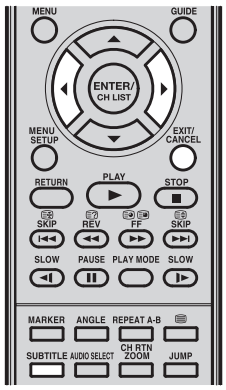


3 Press ▲ / ▼ to select a language code in the Language Code list.

4 When different audio tracks are being broadcast from the left and right channels, select **Left** or **Right** in the Audio mode option.

5 Press **EXIT/CANCEL** EXIT/CANCEL to save audio preferences.

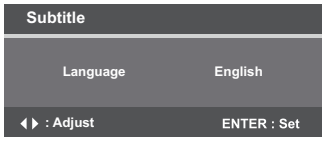
DVB-Subtitle (DTV mode only)



DVB-Subtitle

DVB-Subtitle is a feature supported by DVB (Digital Video Broadcasting) applications. It provides on-screen text display in parallel with the corresponding audio services, and can be enabled or disabled at any time.

1 Press **SUBTITLE** SUBTITLE to display the **Subtitle** menu.

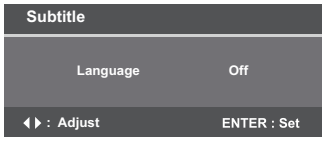


2 Press ◀ / ▶ to select your preferred subtitle language from the available languages.

Note:

- DVB-Subtitle can also be changed by pressing **SUBTITLE** SUBTITLE repeatedly.

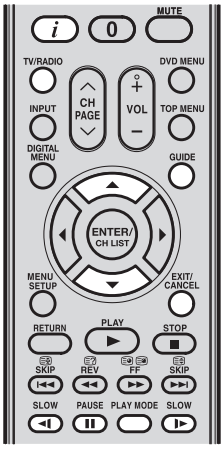
3 To disable DVB-Subtitle, press ◀ / ▶ repeatedly until **Off** appears on the Subtitle menu.



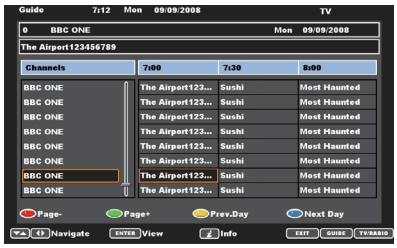
4 Press **EXIT/CANCEL** EXIT/CANCEL to save the subtitle language.

EPG (Electronic Program Guide) (DTV mode only)

The Guide menu shows a list of available programmes for the next eight days only, including today. However, it will show “No Event Name” for programmes which are more than eight days ahead, or for programmes within the eight days when no programme information is available.



1 Press **GUIDE** (GUIDE) to display the EPG menu.


Guide 7:12 Mon 09/09/2008 TV
0 BBC ONE Mon 09/09/2008
The Airport123456789
Channels 7:00 7:30 8:00
BBC ONE The Airport123... Sushi Most Haunted
Page- Page+ Prev.Day Next Day
Navigate ENTER View Info EXIT GUIDE TV/RADIO

2 Press **TV/RADIO** (TV/RADIO) to toggle between three service modes -TV, Radio, and Data - to view the EPG data accordingly. By default, the services listed on the screen is TV mode.

If you wish to view the list of Radio services without exiting the current menu, press **TV/RADIO** (TV/RADIO) once.

If you wish to view the list of Data services without exiting the current menu, press **TV/RADIO** (TV/RADIO) twice.

- **Service List**
  Displays all the available services.
  As you scroll through the service list by pressing ▲ / ▼, the Event List will be refreshed accordingly, and you will see the programme information for the currently highlighted programme(s).
  To scroll through the service list from page to page, press the **Red/SLOW** ◄❙ or **Green/ PAUSE** button.
- **Event List**
  Displays events in a grid of rows and columns.
  Each row shows a list of events that are available for the corresponding service in the service list. Within each row, you can press to navigate through the rest of the events.
  You can easily move to the Previous day or Next day in the Event List by pressing the **Yellow/PLAY MODE** or **Blue/SLOW** ❙► button (the date of the programme you are currently viewing is shown on the top right corner).
  The full event name will be displayed in the bar above. Event title will be displayed only if available; otherwise “No Event Name” message will be displayed.

3 From the Guide menu, you can open the Description menu for the currently highlighted programme(s) by pressing (*i*).

The Guide/Description menu shows extended descriptions of an event. You can scroll and view the complete descriptions of the event using ▲ / ▼.

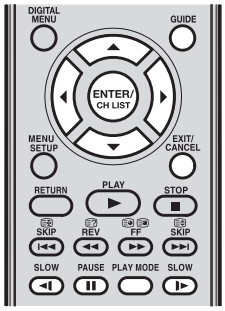
To return to the Guide menu, press (*i*).

To clear the menu screen, press **EXIT/CANCEL** (EXIT/ CANCEL).

EPG Timer (DTV mode only)

You can choose whether or not to switch on your TV screen when a timer event begins (see page 31: Rec Screen Status (LCD Power on/off)). This is so that if you are using the timer to make a recording from your VCR or other device, the TV screen will not turn on unless you want it to.

If you try to interrupt your event timer in any way, e.g. switching to another channel, while the timer event is in progress, the following message will appear: “Warning: Changing the channel will interrupt your event timer. Are you sure you want to proceed? Yes/No”. Select **Yes** or **No** according to your wishes.



1 Press **GUIDE** (GUIDE) to display the EPG menu.

Guide 7:12 Mon 09/09/2008 TV
0 BBC ONE Mon 09/09/2008
The Airport123456789
Channels 7:00 7:30 8:00
BBC ONE The Airport123... Sushi Most Haunted
Page- Page+ Prev.Day Next Day
Navigate View Info

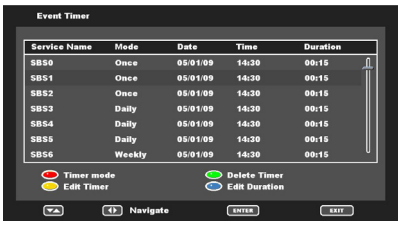
2 Press ▲ / ▼ / ◀ / ▶ to highlight the programme you want to set as a timer event, and then press **ENTER/CH LIST** (ENTER/CH LIST).

Note:

- To display the stored timer events, press **GUIDE** (GUIDE) twice, and then the Event Timer menu (see step 4 below) will appear. You can also delete or change the frequency (Once/ Daily/Weekly) of the stored timer events, but please note that you cannot edit the time details that have been set from the EPG.

3 A confirmation banner will display on-screen.
Press ◀ / ▶ to select **Yes** or **No**, and then press **ENTER/CH LIST** (ENTER/CH LIST) (the selected option is shown in blue).

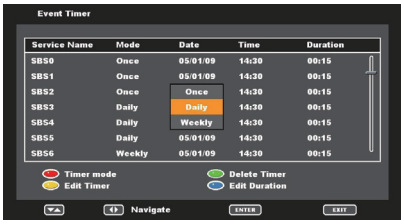
4 The Event Timer menu will appear.
Press the **Red/SLOW** ◄❙ button to set the timer mode for a selected event.



5 The frequency of Timer wake-up specified by the Timer mode can be set as **Once, Daily** or **Weekly**.
Press **ENTER/CH LIST** (ENTER/CH LIST) to save the selected timer mode.

Note:

To delete a timer event, select the specified event and then press the **Green/PAUSE** button.



6 To return to the EPG menu, press **ENTER/CH LIST** (ENTER/CH LIST).

To clear the menu screen, press **EXIT/CANCEL** (EXIT/CANCEL).

Note:

- When the EPG Timer starts, the message “Event Timer Started” will appear.
- If the EPG Timer starts when it is already switched on, it will start at the exact time that is set. If it starts from the standby mode, it will begin 20 seconds ahead of the starting time.
- You cannot hasten the starting time from the original starting time of an Event.
- You cannot set the same date and time for another Event.
- Press the **Yellow/PLAY MODE** button to change the starting time of an event.
- Press the **Blue/SLOW** ❙► button to change the time duration of an event.
- When in power-off condition, EPG Timer cannot be activated.
- If the EPG Timer begins during standby mode without screen display, the Power indicator on the TV will be lit in orange. This is to indicate that an EPG Timer event has begun in standby mode. However, if it begins during the standby mode with screen display, the Power indicator on the TV will light green.

Disc

DVD discs must be Region 5 or Region ALL type to play on this TV/DVD. If region numbers, which stand for their playable area, are printed on your DVD and you do not find ⑤ or ALL, disc playback will not be allowed by the player. (In this case, the TV/DVD will display a message on-screen). Some DVDs that have no region code label may still be subject to area restrictions and therefore not playable.

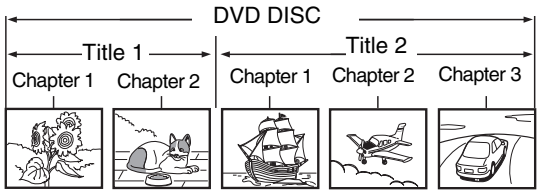
Disc playback reminders

- The following disc formats are supported: DVD-Video, DVD-R/-RW (video format only), Audio CD, CD-R/CD-RW, and Video CD. Some CD-R/RW discs may be incompatible.
- To prevent accidental erasure of pre-recorded material, do not play DVD-ROM, DVD-Audio, CD-G, Photo CD or SVCD.
- This unit can play an 8cm disc.
- Do not use a disc adapter or load any disc of irregular shape into the unit. This may interfere with the operation of the TV. You may not be able to remove the disc.
- Please do not use aftermarket accessories, such as a ring protector. This may interfere with the operation of the unit.

Structure of disc contents

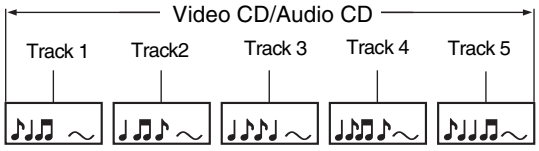
DVD

When two or more movies are recorded on a disc, the disc is divided into two or more sections; each section is called a “title”. The titles can be subdivided into many sections; each section is called a “chapter”.



Video CD/Audio CD

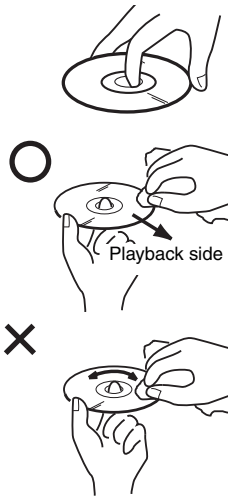
A Video CD/Audio CD can contain several items. Each item is called a “track”.



Removing disc from case

Be sure to hold the edge of a disc. Pick up the disc gently from the case. Do not touch the surface of the disc.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.



Storing disc

- Store the disc in a CD case to avoid scratches, dirt or damage.
- Do not leave the disc exposed to direct sunlight or in hot or humid places.

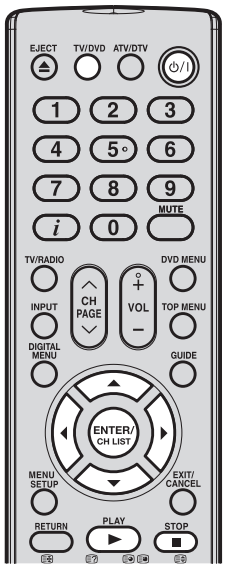
Cleaning disc

Wipe the disc with a clean, dry cloth from the centre outwards.

- Do not wipe in circular direction.
- Do not use liquid or aerosol cleaners.

Basic playback

This section shows you how to play a disc.



Note:

- When a disc is inserted when the TV is not in DVD mode, the TV will automatically switch to DVD mode.
- Do not move the TV during playback. Doing so may damage the disc.

Basic playback (DVD/VCD/Audio CD)

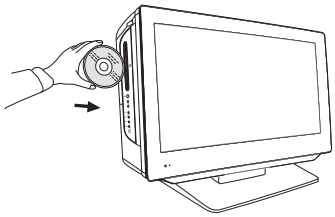
1 Press ⏻/I on the TV control panel or on the remote control to turn on the TV.
The power indicator on the front of the TV will change to green.

2 Press **TV/DVD** (TV/DVD) on the remote control to switch to DVD mode.
The DVD startup screen will appear on-screen.

3 Hold the disc by its edges and load it in the disc slot with the label side facing forward. (If the disc has a label.)

Note:

- Do not place a disc which is unplayable in this TV.



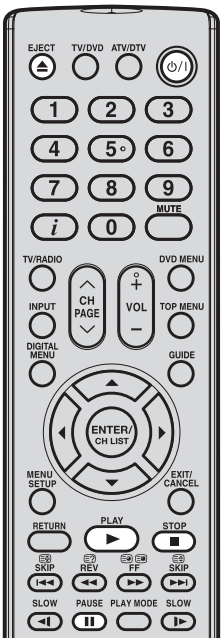
4 On the TV screen, the prompt will change from "Insert Disc" symbol ⏏ to **Reading**, and then playback starts.

- If the disc has its own menu, it will be displayed on-screen. Press ▲ / ▼ / ◀ / ▶ to navigate the disc menu, and then press **ENTER/CH LIST** (ENTER/ CH LIST) to enable the selected menu option.

5 To stop playback, press **STOP** ■.

- The TV supports playback resume function. If you stop the disc playback before it is completed, the TV records the stop point. ⚑ appears on the screen. Press **PLAY** ▶ to resume playback on the stop point.
- If you press **STOP** ■ twice in quick succession or unload the disc, the TV will clear the stop point.

Basic playback (continued)



To start playback in stop mode

Press **PLAY** ▶.

To pause playback (still mode)

Press **PAUSE** ❚❚ during playback.

To continue playback from still mode

Press **PLAY** ▶.

To stop playback

Press **STOP** ■.

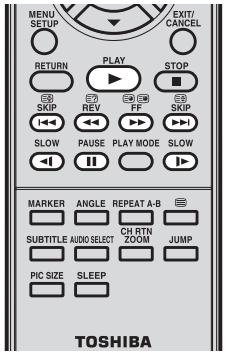
To remove a disc

1 Press **EJECT** ⏏ on the TV control panel or on the remote control.

2 Wait for the disc drive to eject the disc, and then remove the disc from the slot.

Disc playback reminders

- If the TV does not operate properly, static electricity build-up may be the cause. Turn off the TV, and then disconnect the power cord from the AC outlet. Reconnect the power cord, and then press ⏻/I on the TV control panel or on the remote control to turn on the TV again.
- If an incompatible disc is loaded, one of the following messages will appear on-screen: “Incorrect Disc”, “Disc region incorrect” or “Enter Password”, depending on the type of the loaded disc. If this is the case, check your disc again (see pages 52 and 74).
- Some discs may take a minute or so to start playback.
- When you load a disc with the playback side facing forward, “Reading” appears on-screen but it will be replaced by “Incorrect Disc”. Eject the disc and load it again, making sure the playback side is now facing backward.
- The playback resume function may not work on some discs.
- Some DVDs may have fixed playback operations designed by the DVD manufacturer. Since the TV follows this design, some playback features may not be available. You may refer to the instructions accompanying the DVD.
- In many instances, a menu screen will appear after disc playback. Prolonged display of an on-screen menu may damage your television set, permanently etching that menu image on the screen. To avoid this, turn off the TV once disc playback is completed.
- There may be a slight delay between the button press and the function it activates.
- The prohibition symbol “**X**” appears on the upper right corner of the screen when you try to employ a playback function that is not available on the disc, or that is not yet accessible at this time. This does not indicate a problem with the TV.



The TV supports several playback modes that allow you to play discs at various speeds.

Playing in fast reverse or fast forward direction (DVD/VCD/Audio CD)

1 Press **REV ◀◀ / FF ▶▶** during playback.
- **REV ◀◀**: Fast reverse playback
- **FF ▶▶**: Fast forward playback

Each time you press **REV ◀◀ / FF ▶▶**, the playback speed changes.

2 To resume normal playback, press **PLAY ▶**.

Note:
- The sound is muted during reverse and forward scan.
- The playback speed may differ depending on the disc.
- You can use fast reverse/fast forward playback for MP3/DivX® CDs.

Playing frame by frame (DVD/VCD)

1 Press **PAUSE ▮▮** during playback.
Each time you press **PAUSE ▮▮**, the picture advances one frame.

2 To resume normal playback, press **PLAY ▶**.

Note:
- The sound is muted during frame by frame playback.
- You can use frame by frame playback for DivX® CD.

Playing in slow motion (DVD/VCD)

1 Press **SLOW ◀❙ / ❙▶** during playback.
- **SLOW ◀❙**: Slow reverse playback
- **SLOW ❙▶**: Slow forward playback

Each time you press **SLOW ◀❙ /SLOW ❙▶**, the playback speed changes.

2 To resume normal playback, press **PLAY ▶**.

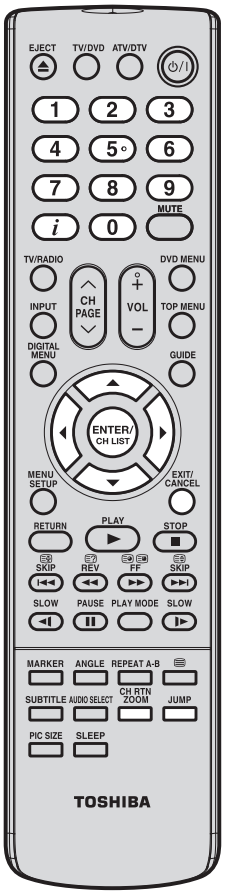
Note:
- The sound is muted during slow motion playback.
- You can use slow forward playback for DivX® CD.
- Slow reverse playback is not available for DivX® CD.

Locating a chapter or track (DVD/VCD/Audio CD)

1 Press **SKIP ❙◀◀ / ▶▶❙** repeatedly to display the chapter or track number you want to play.

- **SKIP ▶▶❙:** To locate succeeding chapters or tracks. Playback starts from the beginning of the selected chapter or track.
- **SKIP ❙◀◀:** Playback starts from the beginning of the current chapter or track. When you press **SKIP ❙◀◀** twice in quick succession, playback starts from the beginning of the preceding chapter or track.

Zoom function/Scene navigation



Using the Zoom function (DVD/VCD)

You can change the viewing scale of a picture by using the Zoom function. Once the image has been rescaled, use the arrow buttons ▲ / ▼ / ◀ / ▶ to pan the image.

1 Press **CH RTN ZOOM** (CH RTN ZOOM) during playback.
The view will zoom into the centre of the image.
Each press of the button will increase the scale value: 🔍1(x 1.3), 🔍2 (x 1.5), and 🔍3 (x 2.0).

2 Press ▲ / ▼ / ◀ / ▶ to pan the scene and view different sections of the picture.

3 To return to normal view, press **CH RTN ZOOM** (CH RTN ZOOM) repeatedly until 🔍 **Off** appears.

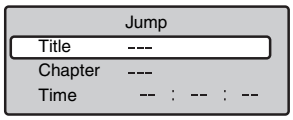
Note:

- You can use the Pause and Slow playback functions in Zoom mode.
- Zoom function may not apply to some discs.
- You can use the Zoom function for DivX® CDs.

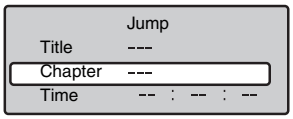
Locating a specific scene (DVD/VCD/Audio CD)

Scene navigation options differ depending on the kind of disc. DVDs use the title, chapter or record time to locate the start point for playback; audio and video CDs use the record time or track number. To view the disc's title/track, chapter, and time list, press (*i*).

1 Press **JUMP** (JUMP) during playback, resume or stop mode.

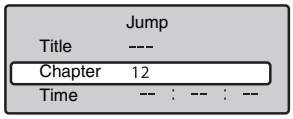


2 Press ▲ / ▼ to select a navigation option: **Title/Track**, **Chapter** or **Time.**



3 Use the **number buttons (0–9)** to key in a value for the navigation option you selected.

If you input a wrong number, press **EXIT/CANCEL** (EXIT/CANCEL). Refer to the disc package to check the correct number.

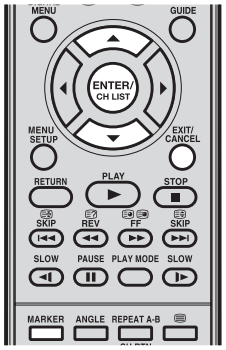


4 Press **ENTER/CH LIST** (ENTER/CH LIST) to start playback.

Note:

- When you use title navigation, playback starts from the first chapter of the selected title.
- Scene navigation may not apply to some discs.
- Scene navigation by record time is applicable only to DivX® CDs.
- For audio and video CDs, you can locate a scene by track number or record time.
- For PBC-enabled VCDs, turn off the PBC function first before using the **JUMP** function (see page 61 for instructions).

Scene bookmark



Note:

- Bookmark function is not applicable to JPEG CD/ DivX® CD.

Bookmarking a scene (DVD/VCD/Audio CD)

Scene bookmarks refer to specific points in the playback range that have been marked for later access. You can create up to three markers per disc.

Note:

- The saved scene bookmarks are only accessible during the current session. Once you eject the disc or turn off the TV, all bookmarks will be cleared.

1 During playback, press **MARKER** (MARKER) at the scene where you would like to place the bookmark.

Marker 1	– – : – – : – –
Marker 2	– – : – – : – –
Marker 3	– – : – – : – –

2 Press ▲ / ▼ to select a blank marker, and then press **ENTER/CH LIST** (ENTER/CH LIST) to bookmark the selected scene.

Marker 1	00 : 27 : 54
Marker 2	– – : – – : – –
Marker 3	– – : – – : – –

3 Press **MARKER** (MARKER) to close the Bookmark window.

4 To save two more bookmarks, repeat steps 1-3.

Note:

- Bookmarking a scene may not apply to some discs.
- In some cases, subtitles for the marked scene may not appear.

Viewing a scene bookmark (DVD/VCD/Audio CD)

1 Press **MARKER** (MARKER) during playback or stop mode.

Marker 1	00 : 27 : 54
Marker 2	01 : 16 : 25
Marker 3	02 : 08 : 31

2 Press ▲ / ▼ to select the saved marker.

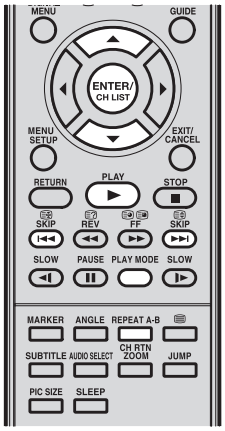
Marker 1	00 : 27 : 54
Marker 2	01 : 16 : 25
Marker 3	02 : 08 : 31

3 Press **ENTER/CH LIST** (ENTER/CH LIST) to start playback on the scene saved in the selected bookmark.

To delete a scene bookmark:

Perform steps 1-2, and then press **EXIT/CANCEL** (EXIT/CANCEL).

Repeat playback/A-B repeat playback



Enabling repeat playback (DVD/VCD)

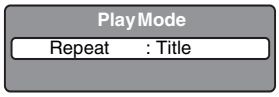
You can choose to repeat DVD playback by title or chapter. For VCDs, you can repeat a single track or the entire disc.

1 Press **PLAY MODE** (PLAY MODE) during playback or stop mode.

2 **DVD**

Press **ENTER/CH LIST** (ENTER/CH LIST) repeatedly to select a repeat mode. It can either be by **Chapter** or by **Title**.
The TV automatically starts repeat playback after finishing the current title or chapter.

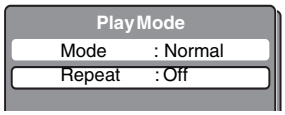
[DVD]



VCD

Press ▲ / ▼ to select **Repeat**, and then press **ENTER/CH LIST** (ENTER/CH LIST) repeatedly to select a repeat mode. It can either be **Single** or **All.**

[Video CD]



Note:
If you set the repeat mode during stop mode, press **PLAY** ▶ to start Repeat playback.

3 Press **PLAY MODE** (PLAY MODE) again to close the Play Mode window.

To resume normal playback:
Select **Off** in step 2 above.

Note:
- The Repeat playback function may not apply to some discs.
- Chapter/Track function is cancelled when the **SKIP** ▶▶| or **SKIP** |◀◀ button is pressed.
- The Repeat playback function is not applicable to PBC-enabled VCDs.

Enabling A-B repeat playback (DVD/VCD/Audio CD)

The A-B repeat function lets you repeat a specific section between two set points.

1 During playback, press **REPEAT A-B** (REPEAT A-B) at the point where you would like the playback loop to begin. This sets your “A” point.

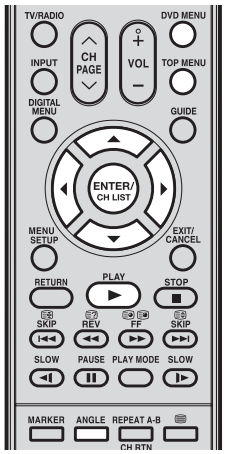
2 When the playback reaches the point where you would like the playback loop to stop, press **REPEAT A-B** (REPEAT A-B) again. This sets your “B” point.

The section between points A and B will be played repeatedly in a loop until you turn off the Repeat A-B mode.

To resume normal playback:
Press **REPEAT A-B** (REPEAT A-B) until **Off** appears on the screen.

Note:
- In some cases, subtitles for the repeated scene may not display.
- The A-B repeat mode may not apply to some DVD scenes.
- The A-B repeat mode is not applicable to interactive DVDs and JPEG CDs.

Scene angle/Title selection/DVD menu



Changing the scene angle (DVD)

When playing back a DVD recorded with multi-angle scenes, you can select the scene angle that you prefer.

1 Press **ANGLE** ANGLE during playback.
The current angle will appear.

2 Press **ANGLE** ANGLE repeatedly until the preferred scene angle is displayed.

Note:

- Depending on the DVD, you may not be able to change the scene angle even if multi-angle data are recorded on the disc.

Selecting a DVD title (DVD)

Some DVDs contain two or more titles. If this is the case, you can select a particular title for playback.

1 Press **TOP MENU** TOP MENU during playback to display the title menu. The title menu will appear on the screen.

2 Press ▲ / ▼ / ◀ / ▶ to select the preferred title.

3 Press **ENTER/CH LIST** ENTER/CH LIST or **PLAY** ▶ to start playback.

Note:

- Title selection may not apply to some DVDs.
- The title menu may simply be referred to as “menu” or “title” in the instructions supplied with the DVD.

DVD menu (DVD)

Some DVDs have an encoded menu that allows you to select a specific disc content, enable a particular DVD feature (e.g. subtitle or soundtrack language), or choose a particular title (for multi-title DVDs).

1 Press **DVD MENU** DVD MENU during playback. The DVD menu will appear on the screen.

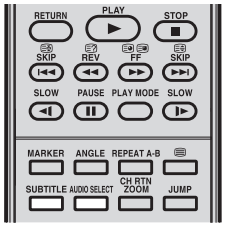
2 Press ▲ / ▼ / ◀ / ▶ to select a DVD menu item, and then press **ENTER/CH LIST** ENTER/CH LIST.
Use the same keys to enable an option for the selected item.
Repeat this step to configure other menu options.

3 Press **DVD MENU** DVD MENU again to resume playback on the scene that was playing when you pressed **DVD MENU** DVD MENU.

Note:

- Depending on the DVD, you may not be able to resume playback from the same scene that was playing when you pressed **DVD MENU** DVD MENU.

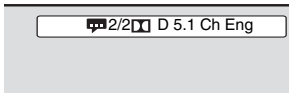
Soundtrack language/Audio channel/Subtitle



Selecting a soundtrack language (DVD)

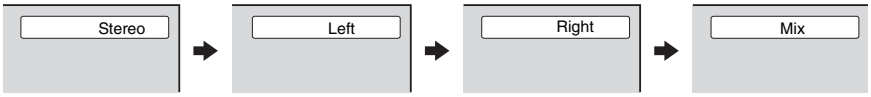
You can select the soundtrack language when you play a multilingual DVD.

During playback, press **AUDIO SELECT** repeatedly until the preferred language is selected.



Selecting the audio channel (VCD)

During playback, press **AUDIO SELECT** repeatedly until the preferred audio channel is heard. Options include **Stereo, Left, Right**, and **Mix**.



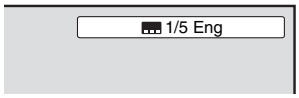
Note:

- If the preferred language is not heard after selecting it for several times, that language is not recorded on the disc.
- The soundtrack language selected is only applicable for the current session. When you stop playback and try to play the disc again, the default language track will be used.
- If you select the DTS option in DVDs with DTS feature, no sound will be heard from the TV speakers. You need to connect an amplifier equipped with a DTS decoder to the optical digital audio out jack.

Viewing subtitles (DVD)

When playing back a disc recorded with subtitles, you can select the subtitle language or turn the subtitle off.

1 Press **SUBTITLE** repeatedly during playback until the preferred language is selected.

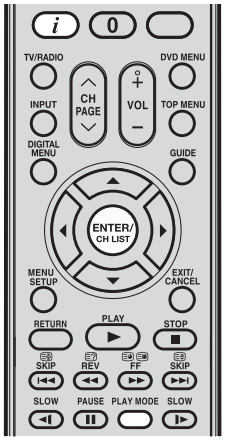


2 To turn off the subtitle, press **SUBTITLE** until **Off** appears. The on-screen display will disappear after a few seconds.

Note:

- Not all DVDs have encoded subtitles.
- The subtitle selection may revert to the default language when you stop playback and try to play the DVD again.
- In some cases, the selected subtitle language may not display immediately.
- Depending on the DVD, you may not be able to change subtitles, or to turn subtitles on or off.

Playback information/VCD playback control (PBC)

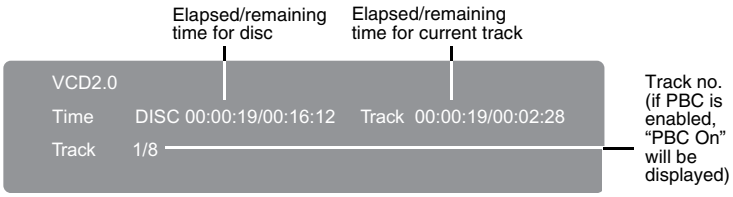


Viewing the playback information (DVD/VCD)

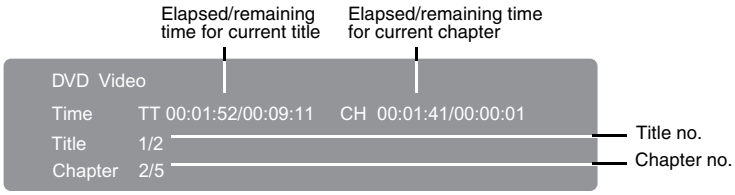
You can view the playback status and other disc information.

Press (i) to display the status of the disc during playback.
To close the display panel, press (i) again.

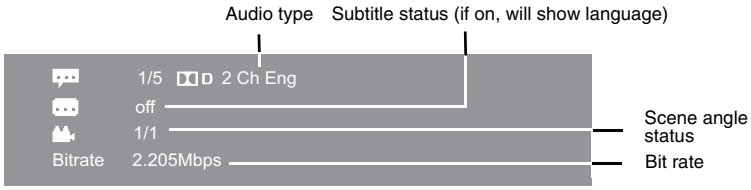
VCD mode


Elapsed/remaining time for disc
Elapsed/remaining time for current track
VCD2.0
Time DISC 00:00:19/00:16:12 Track 00:00:19/00:02:28
Track 1/8
Track no. (if PBC is enabled, "PBC On" will be displayed)

DVD mode



Press (i) again.



On Video CDs

This TV/DVD supports Video CDs equipped with the Playback Control (PBC) function, version 2.0. You can enjoy two playback variations depending on types of discs.

- **Video CD not equipped with the PBC function (Version 1.1)**
  Sound and movie can be played on this TV in the same way as an audio CD.
- **Video CD equipped with the PBC function (Version 2.0)**
  In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the on-screen playback menu. Some of the functions described in this owner's manual may not work with some discs.

To turn off the PBC

(1) Press **PLAY MODE** (PLAY MODE) during stop mode.

(2) Press ▲ / ▼ to select **Mode**, and then press **ENTER/CH LIST** (ENTER/CH LIST) repeatedly until **Normal** appears.

(3) Press **PLAY MODE** (PLAY MODE) again to clear the screen.

To turn on the PBC

Follow the steps 1-2 above, and then press **ENTER/CH LIST** (ENTER/CH LIST) repeatedly until **PBC** appears.

MP3/JPEG/DivX® and Audio CD operation

This TV can play MP3/JPEG/DivX® files recorded on CD-R and CD-RW discs. To create an MP3/JPEG/DivX® disc, you need a Windows PC with a CD-RW drive and file encoding software (not supplied).

This TV requires discs/recordings that meet certain technical standards in order to achieve optimal playback quality. There are many different types of recordable disc formats (including CD-R discs containing MP3 files). Not all recordable discs will produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide. Use of CD-RW discs for recording MP3 files is not recommended.

MP3/JPEG/DivX® /Audio CD information

MP3/JPEG/DivX® playback reminders

- Make sure the file name of MP3/JPEG/DivX® files in a CD includes the 3-character file extension ("mp3", "jpg", "div", "divx", and "avi") to make it compliant with the ISO 9660 standard.
- This unit can read 2000 files per disc. If a disc has more than 2000 files, it reads the first 2000 files, while the remaining files will be omitted.
- To play the files in sequence based on the recorded order:
  - Use MP3/JPEG/DivX® -encoding software that records data alphabetically or numerically.
  - Include a two- or three-digit number prefix on the file name, ex: "01" "02" or "001" "002".
  - Refrain from making too many sub-folders.
- MP3/JPEG/DivX® CDs cannot be used for recording purpose.
- It may take more than one minute for this unit to read MP3/JPEG/DivX® files depending on the disc structure.
- Audio files recorded based on the Joliet Recording Specification can be played back.
- This unit does not support data disc burned using the Apple Mac OS (Hierarchical File System, HFS format).

File name display reminders

- The maximum number of characters for file name display is 15. Long file names will be condensed.
- Only the following characters will be displayed: A through Z (both upper and lower case), 0 through 9, and the underscore symbol (_).
- Non-supported characters will be replaced with a hyphen (-).

MP3/JPEG/DivX® CD limitations

- Depending on the recording conditions, some MP3/JPEG/DivX® CDs cannot be played back in your TV.
- Only MP3/JPEG/DivX® files recorded in the CD-R or CD-RW disc can be played. Other files will not be read nor displayed.

MP3 and DivX® file encoding information

MP3

- File format: MPEG-1 Audio
- Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz
- Bit rate: 32-320 kbps (constant bit rate or variable bit rate)
  The recommended recording setting for high-quality sound is 44.1 kHz sampling frequency and 128 kbps constant bit rate.

DivX®

- Version: DivX® 3, 4, 5, and 6 (specifically 3.1.1, 4.1.2, 5.0.2, 5.0.5, 5.1.1, 5.2.1, 6.0 at Home Theatre profile)
- File format: MPEG1 Layer2 (MP2) or MPEG1 Layer3 (MP3)
- Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz
- Bit rate: 32-320 kbps
- Resolution: 720 x 576 at 25 fps (max), 720 x 480 at 30 fps (max)

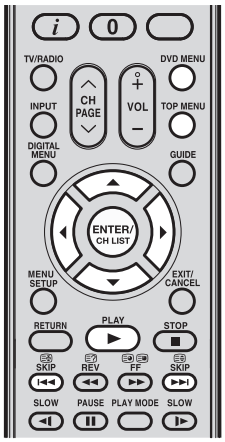
Note:

- DivX®, DivX Certified® and associated logos are registered trademarks of DivX, Inc. and are used under license.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

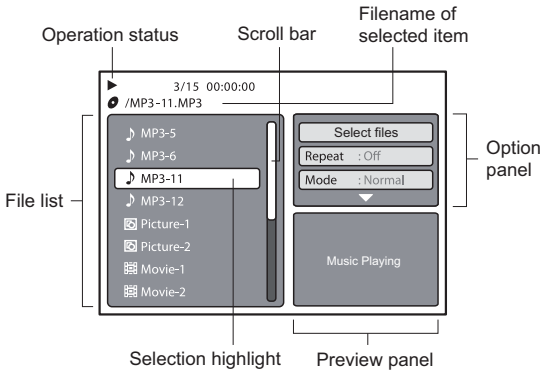
IMPORTANT INFORMATION

You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.

About the file browser/Audio file playback



About the file browser



File icons

♪ Music file (MP3 or audio CD track)
Picture file (JPEG)
Movie file (DivX® video)

If a CD contains a mixture of MP3, JPEG, and DivX® files, and **PLAY** ▶ is pressed without selecting a file, playback starts automatically from the first file in the list.

Setting the file type listing

You can choose the type of files listed in the file browser.

1 Press ▶ to move the selection highlight to the Option panel.

2 Press ▲ / ▼ to highlight **Select Files**, and then press **ENTER/CH LIST** (ENTER/CH LIST).

3 Press ▲ / ▼ to select a file type from the list: **Audio, Photo**, or **Video**.

4 Press **ENTER/CH LIST** (ENTER/CH LIST) to add or remove the check mark next to each file type. Checked file type will be displayed in the file browser.

5 Press ◀ twice to move the selection highlight back to the file list.

Note:

- **Select Files** is not applicable to audio CDs.

Viewing image files in thumbnail mode

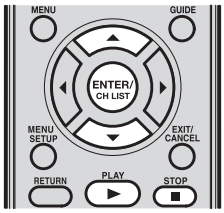
You can change the browser's view mode from list mode to thumbnail mode. This is convenient when browsing for JPEG files.

1 Press **DVD MENU** (DVD MENU).

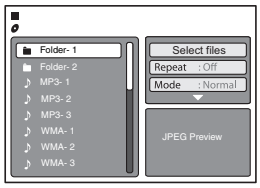
2 Press ▲ / ▼ / ◀ / ▶ to select an image file.

To return the browser to list mode:
Press **TOP MENU** (TOP MENU).
To view the previous or next thumbnail page:
Press **SKIP** |◀◀ or **SKIP** ▶▶|.

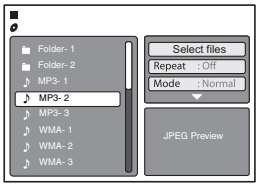
Playing an audio file



1 Load an MP3 or audio CD in the disc slot.
The file browser appears on-screen. The first audio file in the list plays automatically (applicable only to audio CD).



2 Press ▲ / ▼ to select another audio file for playback.

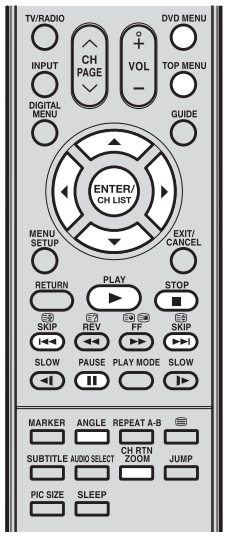


3 Press **ENTER/CH LIST** (ENTER/CH LIST) or **PLAY** ▶ to start playback.

To stop playback:
Press **STOP** ■.
The TV records the stop point. ⚑ appears on-screen. Press **PLAY** ▶ to resume playback. If you press **STOP** ■ twice in quick succession or unload the disc, the TV will clear the stop point.

Note:

- If the current directory has more than eight files, press ▲ / ▼ to scroll the file list.
- To see folder contents, select a folder and then press **ENTER/CH LIST** (ENTER/CH LIST).
- To return to the root directory, select **Go Up ...** and then press **ENTER/CH LIST** (ENTER/CH LIST).
- The Repeat and Random/Programme playback modes can be enabled during audio playback (see pages 67-68).



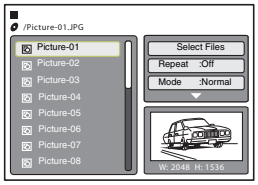
Note:

- The Jump and A-B Repeat modes are not available when viewing JPEG images.
- When an image exceeds 5760 x 3840 pixels, the image display can appear cropped. This applies when viewing the image in the Preview panel of the file browser, or when in the thumbnail, full-screen, or slide show modes.
- During a slide show, the interval time between images may increase if the file size is too big.

Viewing a JPEG file

1 Load a disc containing JPEG files in the disc slot.
The file browser appears on-screen.

2 Press ▲ / ▼ to select an image file for viewing.
A preview of the selected file is displayed in the Preview panel.



To display a thumbnail list:

Press **DVD MENU** (DVD MENU), and then press ▲ / ▼ / ◀ / ▶ to select an image file.

To return to the file browser:

Press **TOP MENU** (TOP MENU).

When **PLAY** ▶ is pressed without selecting a file, playback starts automatically from the first file in the list.

3 Press **ENTER/CH LIST** (ENTER/CH LIST) or **PLAY** ▶.
The selected image is displayed in full-screen mode.

To rotate an image:

Press **ANGLE** (ANGLE) repeatedly until the preferred angle is obtained.

The image angle is adjusted in 90º increments. The current angle setting is shown on-screen: **90º, 180º, 270º** or **No rotation.**

To magnify an image:

Press **CH RTN ZOOM** (CH RTN ZOOM) repeatedly until the image is displayed in the preferred scale. The current zoom setting is indicated by the following icons: 🔍**1** (x 1.3), 🔍**2** (x 1.5), and **3** 🔍(x 2.0).

To return to normal view:

Press **CH RTN ZOOM** (CH RTN ZOOM) repeatedly until 🔍 **Off** appears.

4 Press **STOP** ■ to end playback.
The file browser appears on-screen.

Viewing a slide show

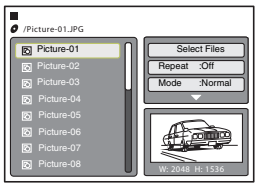
The slide show enables you to view multiple JPEG files one after another automatically.

Preparation:

Set **JPEG Interval** setting to **5 seconds**, **10 seconds**, or **15 seconds** (see page 72).

1 Open the file folder containing the JPEG files you want to include in the slide show.

2 Press ▲ / ▼ to select the file you want to be the starting image for the slide show.
A preview of the selected file is displayed in the Preview panel.



3 Press **ENTER/CH LIST** (ENTER/CH LIST) or **PLAY** ▶ to start slide show.
The selected image is displayed in full-screen mode.
When the slide show is completed, the file browser appears.

To view the previous or next image in the slide show:

Press **SKIP** |◀◀ / ▶▶|.

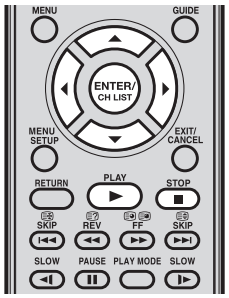
To temporarily stop the slide show:

Press **PAUSE** ❚❚. ❚❚ will appear on-screen. Press **PLAY** ▶ or **SKIP** ▶▶| to resume the slide show.

To stop the slide show:

Press **STOP** ■. The file browser appears.

DivX® and DivX® VOD operation



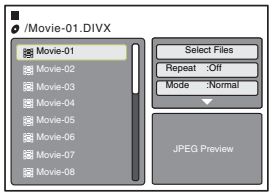
Note:

- Depending on the recording conditions of DivX® file, you may not be able to use the **Fast Reverse, Fast Forward** playback, and **Jump** functions (see pages 55-56).

DivX® playback

1 Load a disc containing DivX® files in the disc slot.
The file browser appears.

2 Press ▲ / ▼ to select a file for playback.
When **PLAY** ▶ is pressed without selecting a file, playback starts automatically from the first file in the list.



3 Press **ENTER/CH LIST** (ENTER/CH LIST) or **PLAY** ▶ to start movie playback.

4 To stop playback, press **STOP** ■.
The TV records the stop point. ⚑ appears on-screen. Press **PLAY** ▶ to resume playback.
If you press **STOP** ■ twice in quick succession or unload the disc, the TV will clear the stop point.

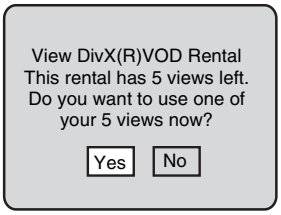
Playing DivX® VOD content

DivX Certified® to play DivX® video, including premium content.

ABOUT DivX® VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

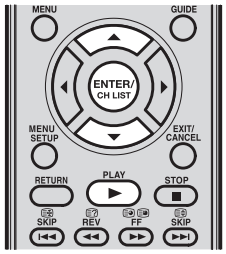
ABOUT DivX® VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-On-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD (see page 75).

If an incorrect DRM file is loaded, the message “Authorization Error This player is not authorized to play this video.” appears on-screen. DivX® VOD content can only be played for a certain number of times. A message prompt will appear to show the allowable number of views. If you intend to consume all your view options during the current session, press ◀ / ▶ to select **Yes**, and then press **ENTER/CH LIST** (ENTER/CH LIST).



If you attempt to play DivX® VOD content that has already reached its view limit, the message “Rental Expired” appears on-screen. In this case, you will not be able to play the file.

MP3/JPEG/DivX® and Audio CD playback modes



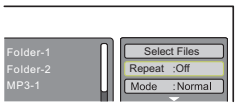
Note:

- These playback modes are only applicable during the current session. Once you eject the disc or turn off the TV, these modes will be disabled.
- For audio CD, the A-B Repeat function can also be used (see page 58).

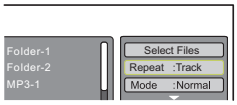
Enabling repeat playback (Audio CD/MP3/JPEG/DivX®)

You can choose to repeat CD playback by track or the entire disc.

1 During stop mode, in the Option panel of the file browser, press ▲ / ▼ to select **Repeat**.



2 Press **ENTER/CH LIST** (ENTER/CH LIST) repeatedly to select a repeat mode: **Track** or **All**.



3 Press **PLAY** ▶.
The TV automatically starts repeat playback after finishing the current track.

4 To resume normal playback, select **Off** in step 2 above.

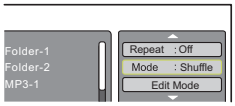
Enabling random playback (Audio CD/MP3/JPEG/DivX®)

You can set the TV to play files at random.

1 During stop mode, in the Option panel of the file browser, press ▲ / ▼ to select **Mode**.

2 Press **ENTER/CH LIST** (ENTER/CH LIST) repeatedly to set the mode to **Shuffle**.

3 Press **PLAY** ▶.
The TV automatically applies the shuffle mode.



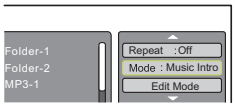
4 To resume normal playback, select **Normal** in step 2 above.

Enabling the Music Intro mode (Audio CD/MP3)

When the **Music Intro** mode is enabled, the first 10 seconds of an audio track is played. This is useful if you are simply looking for a particular track in a list.

1 During stop mode, in the Option panel of the file browser, press ▲ / ▼ to select **Mode**.

2 Press **ENTER/CH LIST** (ENTER/CH LIST) repeatedly to set the mode to **Music Intro**.

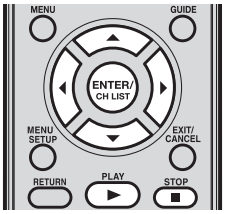


3 Press **PLAY** ▶.
The TV starts to play the first 10 seconds of each track in the list.

4 To resume normal playback, select **Normal** in step 2 above.

MP3/JPEG/DivX® and Audio CD playback modes

(continued)



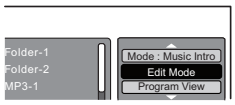
Note:

- The programme playback mode is only applicable during the current session. Once you eject the disc or turn off the TV, this mode will be disabled.

Programming the playback sequence (Audio CD/MP3/JPEG/DivX®)

You can customise the file playback sequence.

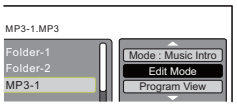
1 In the Option panel of the file browser, press ▲ / ▼ to select **Edit Mode**, and then press **ENTER/CH LIST** .



2 Press ◀ to return to the file list and press ▲ / ▼ to select a file, and then press **ENTER/CH LIST** to mark it for inclusion in the programmed playlist.

A check mark will appear next to the file.

Repeat this step to mark any other files you want to add in the programmed playlist.



3 In the Option panel, press ▲ / ▼ to select **Add To Program**, and then press **ENTER/CH LIST** to add the marked files to the programmed playlist.

The maximum number of files/tracks can be added is 30.

4 Press ▲ / ▼ to select **Edit Mode**, and then press **ENTER/CH LIST** to disable it.

5 Press ▲ / ▼ to select **Program View**, and then press **ENTER/CH LIST** .
In Program View, only the files you added in step 3 are displayed.

Browser View **Program View**

6 In the programmed playlist, press ▲ / ▼ to select a file, and then press **PLAY** ▶ to start playback.

To remove a file from the programmed list:

1 Press **STOP** ■ twice to stop playback.

2 In Program View, press ▲ / ▼ / ◀ / ▶ to select **Edit Mode** on the Option panel, and then press **ENTER/CH LIST** to enable it.

3 Press ◀ to go to the programmed list.

4 Press ▲ / ▼ to select the file you want to remove, and then press **ENTER/CH LIST** .

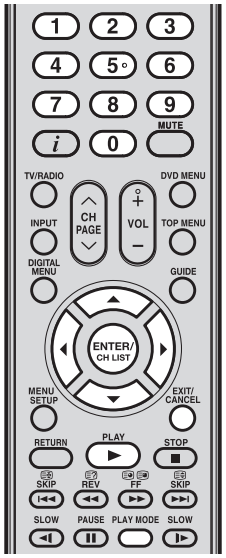
5 Repeat step 4 to mark any other files you want to remove from the list.

6 Press ▶ to go to the Option panel.

7 Press ▲ / ▼ to select **Clear Program**, and then press **ENTER/CH LIST** .

Programme playback/Random playback

The TV enables you to arrange the playback order of tracks and files on the disc, and it can also select tracks and files at random and playback them. These features can be applied for Video CD. For Audio CD and MP3/JPEG/DivX® CD, please see "Enabling random playback (Audio CD/MP3/JPEG/DivX®)" on page 67 and "Programming the playback sequence (Audio CD/MP3/JPEG/DivX®)" on page 68.

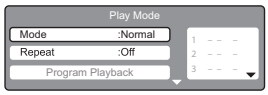


Note:

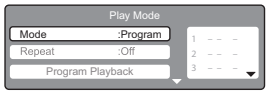
- The programme playback mode is only applicable during the current session. Once you eject the disc or turn off the unit, this mode will be disabled.

Enabling programme playback (VCD)

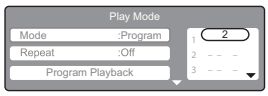
1 Press **PLAY MODE** PLAY MODE during stop mode.



2 Press ▲ / ▼ to select **Mode**, and then press **ENTER/CH LIST** ENTER/CH LIST to select **Program**.



3 Press ◀ / ▶ to select the programming position.
Use the **number buttons (0–9)** to input the track numbers sequentially.
If you input a wrong number, press **EXIT/CANCEL** EXIT/CANCEL.



4 Press ◀ / ▶ to return to the left column, then press ▲ / ▼ to select **Program Playback** and press **ENTER/CH LIST** ENTER/CH LIST. The programmes you selected will start to playback in order.

Note:

- For Video CD with PBC, you cannot set program playback.

To resume normal playback:
Select **Normal** in step 2.

To change programmes:

(1) Select **Program** in step 2, then press ▲ / ▼ / ◀ / ▶ to select the track number you want to change, and press **EXIT/CANCEL** EXIT/CANCEL.
(2) Use the **number buttons (0–9)** to enter the new track number.

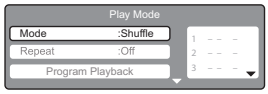
To clear programmes:

- To clear a single programme, select **Program** in step 2. Press ▲ / ▼ / ◀ / ▶ to select the track number, and then press **EXIT/CANCEL** EXIT/CANCEL.
- To clear all programmes, select **Clear Program**, and then press **ENTER/CH LIST** ENTER/CH LIST.

Enabling random playback (VCD)

1 Press **PLAY MODE** PLAY MODE during playback or stop mode.

2 Press ▲ / ▼ to select **Mode**, and then press **ENTER/CH LIST** ENTER/CH LIST to select **Shuffle**.

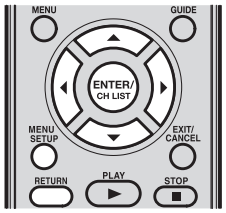


3 Press **PLAY** ▶ to start random playback.
- If you set **Shuffle** during playback mode, random playback will begin after the track currently played has ended.
- To resume normal playback, select **Normal** in step 2.

Note:

- For Video CD with PBC, you cannot set random function during playback.

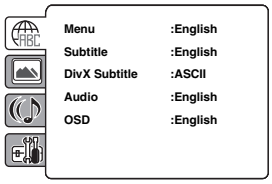
Customising disc playback



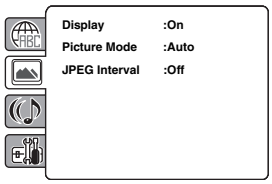
You can customise the disc playback settings to suit your preferences.

Configuring the disc playback settings (DVD/VCD/CD)

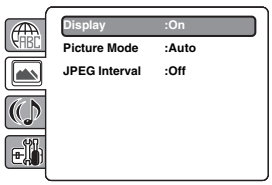
1 In DVD mode, press **MENU SETUP** (MENU SETUP) during stop mode.



2 Press ▲ / ▼ to select a setup tab, and then press ▶.



3 The first option will be highlighted.
Press ▲ / ▼ to select the setup option you want to customise.



4 Press **ENTER/CH LIST** (ENTER/CH LIST) or ▶ to display a list of available option settings.

5 Press ▲ / ▼ to select an option setting, and then press **ENTER/CH LIST** (ENTER/CH LIST) to apply and save it.
Go to pages 72-75 for a list of descriptions for each option setting.

6 To configure another option on the same setup tab, repeat steps 3-5.
To configure an option on another tab, go back to step 2 by pressing ◀ repeatedly.

7 To close the Setup screen, press **MENU SETUP** (MENU SETUP) or **RETURN** (RETURN).

Settings details

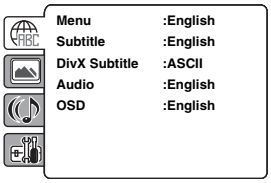
Section	Option	Details	Page
	Menu	Select the language for the DVD menu display.	72
	Subtitle	Select the subtitle language for disc playback.	
	DivX Subtitle	Select the subtitle encoding format for DivX® VOD playback.	
	Audio	Select the audio language for disc playback.	
	OSD	Select the language for the Setup screen display.	
	Display	Choose whether to show a status display whenever a button is pressed.	72
	Picture Mode	Select the DVD source content.	
	JPEG Interval	Select the interval time between images in a slide show.	
	Night Mode	Toggle the night mode on or off.	73
	Digital Out	Select the format for digital audio output corresponding to your audio connection.	
	Parental	Set the restriction level for allowable disc content.	74
	Password	Change the access password for the parental control setting.	75
	DivX (R) VOD	Display the 10-character registration code for viewing DivX® VOD content.	
	DivX Deregistration	Display the 8-character deregistration code.	

Note: These setup settings are retained in the TV's memory. It remains active even if the power is turned off.

Customising disc playback (continued)

Menu / OSD

Select the language for the DVD and Setup menu display. Options include: English, Spanish, German, Italian and Russian.



Subtitle / Audio

Select the language for the subtitle display and audio track output during disc playback.

- **English/Spanish/Italian/German/Russian:** The selected language will be heard or seen.
- **Auto (Subtitle):** The TV will display the subtitle in the disc's default language.
- **Off (Subtitle):** There will be no subtitle display.

Note:

- If the selected language is not available, the default disc language will be used.

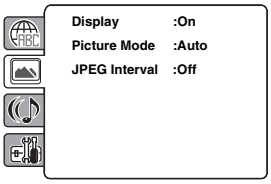
DivX Subtitle

Select the subtitle encoding format to use during DivX® content playback. Options include: ASCII, Unicode, Turkish, Hebrew, Arabic and KOI8_R.

Display

Choose whether to show a status display whenever a button is pressed.

- **Off:** There will be no on-screen display when any button is pressed, except **PLAY MODE**, **MARKER**, (*i*), and **JUMP**.
- **On:** There will be on-screen display when any button is pressed.



Picture Mode

The source content of a DVD can either be recorded in film format (images are recorded at 24 frames per second) or video format (images are recorded at 30 frames per second). Make this selection according to the type of content being viewed.

- **Auto:** The TV automatically detects the type of source content and converts that signal in an appropriate method based on the current aspect ratio of the TV. This option will normally suit most DVDs.
- **Film:** Suitable for playback of DVDs recorded in a film format.
- **Video:** Suitable for playback of DVDs recorded in a video format.

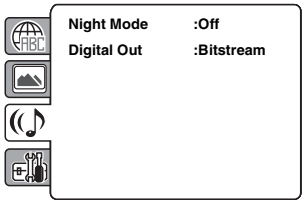
Note:

- If picture appears cut off or doubled, select **Video**.

JPEG Interval

Select the interval time between images during a JPEG slide show.

- **Off:** Slide show option is disabled.
- **5 seconds:** Images will be displayed in a slide show at 5 second intervals.
- **10 seconds:** Images will be displayed in a slide show at 10 second intervals.
- **15 seconds:** Images will be displayed in a slide show in 15 second intervals.



Night Mode

Select to toggle the Night Mode feature on or off. When enabled, this function allows for automatic volume level adjustment for audio that may be too low (e.g. whispered dialogues) or too high (e.g. a thunderstorm scene).

- **Off:** Audio retains its disc recording volume level.
- **On:** Volume level is automatically adjusted depending on the scene content.

Note:

- The Night Mode feature is only applicable to Dolby Digital-featured DVDs. The adjusted sound level depends on the DVD encoding.

Digital Out

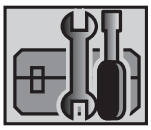
Select the sound format of the digital output depending on the enabled signal connection.

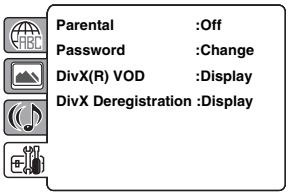
- **Off:** Disable digital sound output. Select this option when there is no equipment connected to the optical DIGITAL AUDIO OUT jack.
- **PCM:** Change Dolby Digital output to PCM. Select this option when using a two-channel digital stereo amplifier.
- **Bitstream:** Select this option to output the signal in its native format.

Note:

- MPEG audio will always be in PCM format regardless of the Digital Out setting.

Customising disc playback (continued)





Parental

A DVD is usually encoded with a rating level to indicate the recommended audience age. You have the option to select the content rating level allowed for playback in your TV.

You will be prompted to key in the system password to access this setting option. For initial access to this menu:

(1) Press ▲ / ▼ to select **Parental**, and then press **ENTER/CH LIST** (ENTER/CH LIST). **Enter Password** screen will appear.

(2) Press "0000" using the **number buttons (0–9)**. (Please note that this is the factory default password.) Then press **ENTER/CH LIST** (ENTER/CH LIST).

Press **ENTER/CH LIST** (ENTER/CH LIST) again to view the parental rating levels.

- **Level 1 Kid Safe:** Suitable for children
- **Level 2 G:** General audiences; recommended as acceptable for viewers of all ages
- **Level 3 PG:** Parental guidance suggested
- **Level 4 PG-13:** Unsuitable for children under 13
- **Level 5 PG-R:** Parental guidance recommended
- **Level 6 R:** Restricted; parents or adult guardians are required to accompany children under 17
- **Level 7 NC-17:** No one under 17 admitted
- **Level 8 Adult:** Virtually, DVD software of any grade (adult/general/children) can be played back. Should be viewed only by adults due to graphic sexual material, violence or language.
- **Level Off:** No playback restriction. All discs can be played regardless of content rating.

(3) Press ▲ / ▼ to select the allowable rating level, and then press **ENTER/CH LIST** (ENTER/CH LIST). The higher the level number, the more severe the content is.

(4) Press **EJECT** ⏏ to activate Parental control setting.

To temporarily cancel the parental restriction:

(1) Load the restricted content DVD that you want to play.

(2) Use the **number buttons (0-9)** to input the system password after the **Enter Password** message, and then press **ENTER/CH LIST** (ENTER/CH LIST).
This suspension of the parental restriction setting applies until disc is ejected.

Note:

- If each setting (pages 72-75) has been completed, the TV can always work under the same condition (especially with DVD discs). Each setting will be retained in the memory even if you turn the power off.
- Some discs may not have their rating level encoded on the disc though it is indicated on the disc jacket. Playback restriction will not apply to these discs so make sure to restrict access to it manually.
- The password is required whenever you change the parental level.
- If you input a wrong number, press **EXIT/CANCEL** (EXIT/CANCEL).

Password

Select this option to change the access password for the parental control setting.

(1) Press ▲ / ▼ to select **Password**, and then press **ENTER/CH LIST** (ENTER/CH LIST). The **Enter Current Password** screen will appear.
(2) Use the **number buttons (0–9)** to input the current password, and then press **ENTER/CH LIST** (ENTER/CH LIST). If the password has not been set yet, key in "0000". This is the factory default password.
(3) Press **ENTER/CH LIST** (ENTER/CH LIST) again, and then **Enter New Password** screen will appear. Use the **number buttons (0–9)** to input the new password.
(4) Press **ENTER/CH LIST** (ENTER/CH LIST). You will be prompted to confirm the new password.
(5) Use the **number buttons (0–9)** to input the new password again, and then press **ENTER/CH LIST** (ENTER/CH LIST). Now your new password has been set. Be sure to remember this number!

If you forget the password:

(1) Make sure there is no disc in the disc slot.
(2) Press and hold down **4** on the remote control, and then press **VOLUME -** on the TV control panel. The **Initializing** message appears on-screen to indicate that the password has been reset to its default factory setting "0000". All DVD setup-related settings will also be reset to their default factory values.

DivX(R) VOD

In order to play DivX® VOD (Video-On-Demand) content on this TV, you first need to register the TV with your DivX® VOD content provider. You do this by generating a DivX® VOD registration code, which you will need to submit to your provider.

To generate this code:

(1) Press ▲ / ▼ to select **DivX(R) VOD**, and then press **ENTER/CH LIST** (ENTER/CH LIST). Your 10-character registration code is displayed on-screen. Note down the code as you will need it when you register with a DivX® VOD provider. Then press **ENTER/CH LIST** (ENTER/CH LIST) to select **Done**.

DivX Deregistration

In order to deregister this TV, you will be required to provide your TV's deregistration code.

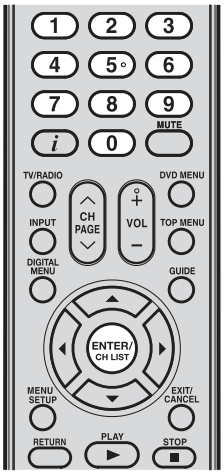
To generate this code:

(1) Press ▲ / ▼ to select **DivX Deregistration**, and then press **ENTER/CH LIST** (ENTER/CH LIST). Note down the 8-character deregistration code that is displayed on-screen.

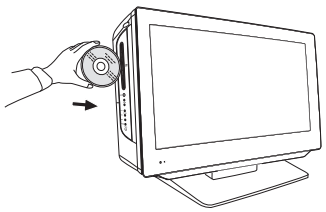
Note:

- In order to select **Divx Deregistration**, you will first need to register your TV at http://www.divx.com/vod with the registration code provided (see **DivX(R) VOD**); otherwise, this item is greyed out and cannot be selected.

Temporary cancel the rating level by DVD disc

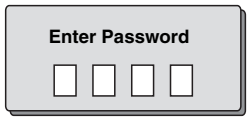


1 Load a DVD disc.



2 If the DVD disc has been designed to temporarily cancel the rating level, the screen which follows the **Reading** screen will change, depending on which disc is played. If you select **Yes** and press **ENTER/CH LIST** (ENTER/CH LIST), the password input screen will then appear.

3 Use the **number buttons (0–9)** to input the password, and then press **ENTER/CH LIST** (ENTER/CH LIST).



4 Playback will start if the entered password is correct.

Note:

- This temporary cancellation of rating level will be kept until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically.

PC connection

As PCs are sometimes supplied with a “conventional” CRT monitor, you may need to adjust the display settings of your PC’s graphic card; otherwise the pictures may not appear correctly. Switch on your PC (still with your original monitor), select “1360 x 768” for the screen resolution, and select “60 Hz” for the on-screen refresh rate. Switch off your PC, and then connect it to your TV while both items are switched off.

Monitor display modes

Mode	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 x 480	59.940 Hz	31.469 kHz	25.175 MHz
SVGA	800 x 600	60.317 Hz	37.879 kHz	40.000 MHz
XGA	1024 x 768	60.004 Hz	48.363 kHz	65.000 MHz
WXGA	1280 x 720	60.000 Hz	45.000 kHz	74.250 MHz
WXGA	1280 x 768	59.870 Hz	47.776 kHz	79.500 MHz
WXGA	1360 x 768	60.015 Hz	47.712 kHz	85.500 MHz

(according to graphic card)

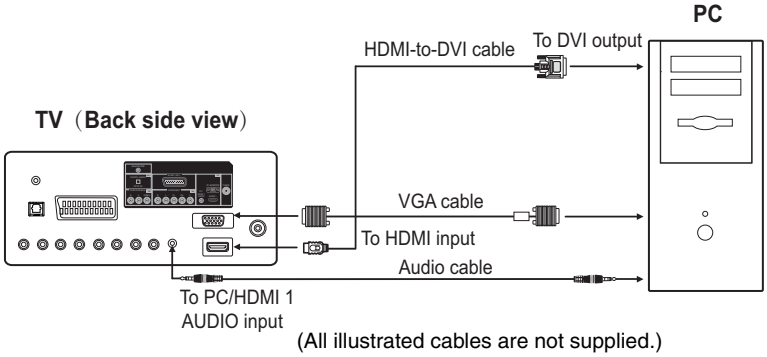
Select PC input

(1) Switch on the TV.
(2) Switch on the computer.
(3) Select the PC input mode on the TV (see page 18). (When you use an HDMI cable, select HDMI input mode.)

Note:

- The PC audio input terminal on the TV is shared with the HDMI 1 analogue audio input terminal.
- If there is no video signal from the computer when the TV is in PC mode, **No Signal** will appear on the TV screen.
- If a digital PC connection does show a picture, proper working is not guaranteed. Digital PC connection is not granted for this TV.

Use a PC-VGA cable (not supplied) to connect the TV to your PC. You can also use an HDMI cable to connect the TV to your PC. When the HDMI cable is used, the audio cable is no longer required. If you use the HDMI-to-DVI cable, please connect audio cable in the same way as VGA cable. Connect cables carefully. Do not bend or break the connector pins.



(All illustrated cables are not supplied.)

To adjust the contrast:

1 During PC mode, press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.

2 Press ▲ / ▼ to select **Picture**, and then press **ENTER/CH LIST** (ENTER/CH LIST).
Press ▲ / ▼ to select **Picture Setting**, and then press **ENTER/CH LIST** (ENTER/CH LIST).
Select **Contrast** and then press **ENTER/CH LIST** (ENTER/CH LIST).
Press ◀ / ▶ to adjust the contrast.

3 Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.

After connecting a PC to your TV, you can now configure the display and audio settings.

To configure the display settings:

(1) Press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.
(2) Press ▲ / ▼ to select the **Picture** menu, and then press **ENTER/CH LIST** (ENTER/CH LIST).
(3) On the Picture menu, you can adjust various picture properties such as brightness, contrast, sharpness, colour, tint, colour temperature, backlight, and dynalight.
Note: Tint can be adjusted only when NTSC signal is supported.
(4) For a list of available menu options in the Picture menu, see page 29.

To configure the audio settings:

(1) Press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.
(2) Press ▲ / ▼ to select the **Sound** menu, and then press **ENTER/CH LIST** (ENTER/CH LIST).
(3) On the Sound menu, you can adjust the NICAM stereo reception, and the bass, treble, balance, and sound effects.
Note: NICAM is available only when the TV is set to ATV mode.
(4) For a list of available menu options in the Sound menu, see page 29.

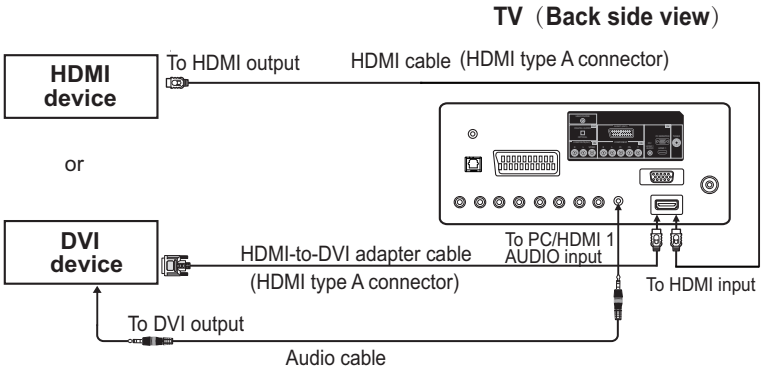
Connecting an HDMI or DVI device to the HDMI input

The HDMI input on your TV receives digital audio and uncompressed video from an HDMI-equipped device, or uncompressed digital video from a DVI-equipped (Digital Visual Interface) device.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Note:

- All the models (19DV733G/19DV734G/ 22DV733G/22DV734G/ 26DV733G) have two HDMI IN jacks (HDMI1 and HDMI2) and only one audio input mode (HDMI1). Please check the I/O port label on the rear side of TV to determine the location of the HDMI1 jack.



(All illustrated cables and type A connectors are not supplied.)

To connect an HDMI device:

One HDMI cable per HDMI device is necessary.

- For proper operation, it is recommended that you use an HDMI cable with the HDMI logo (HDMI).
- HDMI cable transfers both video and audio signals. Separate analogue audio cables are not required (see illustration).

To connect a DVI device:

One HDMI-to-DVI adapter cable and one pair of standard analogue audio cable per DVI device are necessary.

- For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).
- An HDMI-to-DVI adapter cable transfers video only. Make sure to connect this cable to the **HDMI1** input on the TV. Separate analogue audio cables are required (see illustration).

HDMI/DVI device setup reminders

- When turning on your electronic components, turn on the TV first and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first and then the TV.

Selecting HDMI input

After setting up the HDMI device, use the TV remote control to change the TV source input to HDMI (see page 18).

Selecting the HDMI audio input source

You must choose an appropriate HDMI audio input for each connection, depending on whether the source is equipped with an HDMI or DVI socket.

1 Press **MENU SETUP** (MENU SETUP) to display the Main Menu screen.

2 Press ▲ / ▼ to select **Sound** menu, and then press **ENTER/CH LIST** (ENTER/CH LIST).

3 Press ▲ / ▼ to select **HDMI1 Audio**, and then press **ENTER/CH LIST** (ENTER/CH LIST).
Press ◀ / ▶ to select **HDMI** or **DVI**.

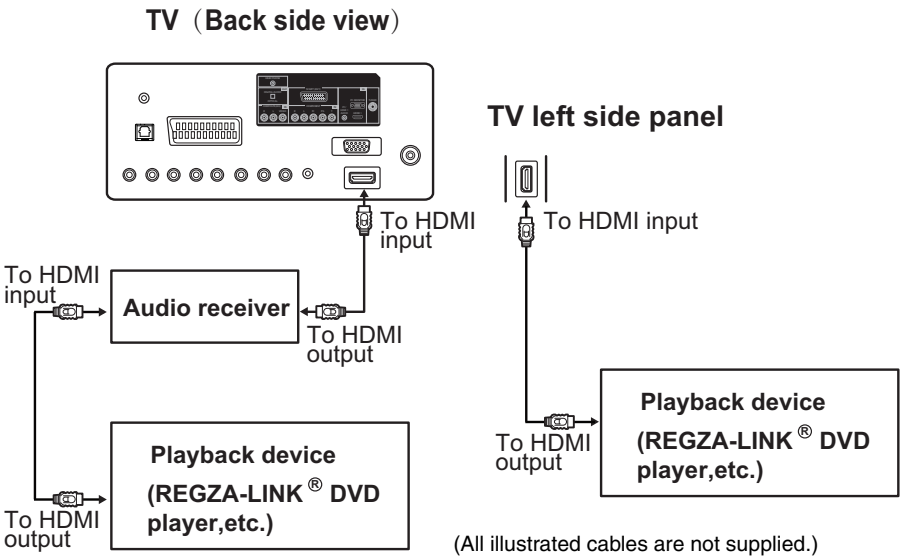
4 Press **EXIT/CANCEL** (EXIT/CANCEL) to return to the normal screen.

Note:

- For specific connection instructions, refer to the manual supplied with your HDMI device.
- To set the video output for the HDMI device, refer to the manual supplied with your HDMI device.
- If there is no picture available via HDMI connection, you can use a SCART cable to connect to the TV. Use the HDMI-device's remote control to launch the HDMI-device's Setup menu screen.

REGZA-LINK® connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK® compatible audio receiver or playback device. For an explanation of setup and operations, see pages 32-35.



(All illustrated cables are not supplied.)

To connect an audio receiver and playback devices:

HDMI cables are necessary (see illustration).

Note:

- If several devices are connected, REGZA-LINK® feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI).

Before controlling the device(s):

- After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (see page 35).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK® feature uses the CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK®. However, Toshiba is not liable for those operations. Refer to the individual instruction manuals for compatibility information.

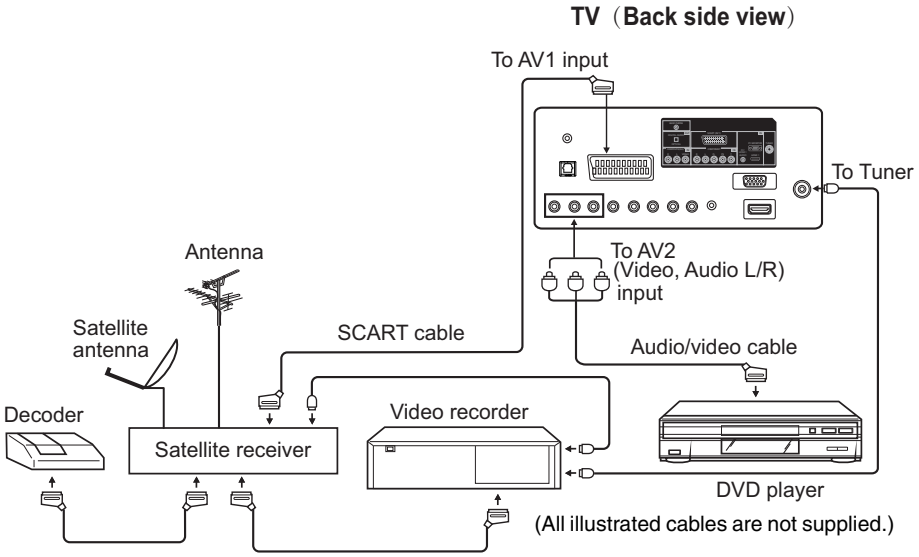
Note:

- This feature may not work properly depending on the devices that are connected.

Connecting TV to other equipment

1 Connecting aerials and other devices to your TV

Connect the TV's coaxial cable directly to the aerial input jack at the back of the TV.



Caution:

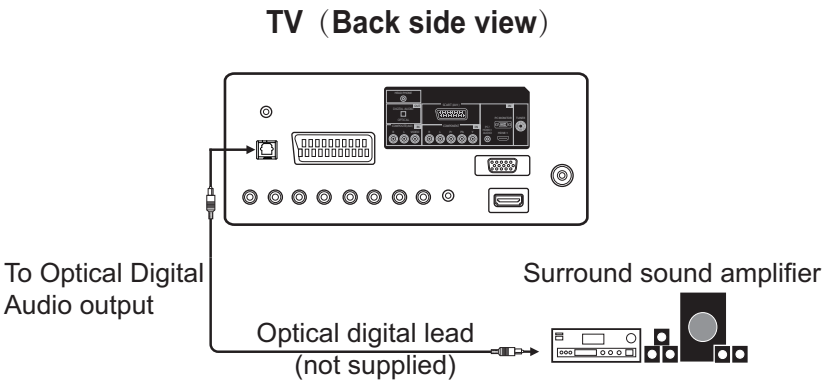
Before connecting:

- Make sure to disconnect the appliance from the power supply in order to avoid any potential damage from occurring.
- Make sure to establish the required connection.
- Make sure that connections are properly and correctly attached before connecting the appliance to the power supply.

2 Connecting an audio system

The TV's digital audio out terminal outputs a Dolby Digital or two-channel down-mixed PCM (Pulse-Code Modulation) signal for use with an external Dolby Digital decoder, surround sound amplifier, etc. with optical audio input. An optical audio cable is required for the connection. Use an optical audio cable that has the larger "TosLink" connector and not the smaller "mini-optical" connecter.

If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded soundtracks on DVDs and audio CDs.



Note:

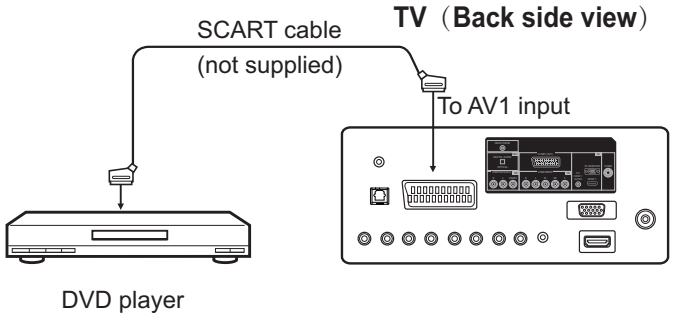
- The digital audio out terminal may not output some digital audio sources because of copy restrictions.
- The Bass/Treble/Balance adjustments function only with the sound from the TV speakers.
- After connecting a Dolby Digital decoder, please select in the DVD menu the **Dolby Digital** (DD) sound track option.
- Several DVDs may be pre-recorded on both sides. However only one side contains the Dolby Digital sound track. Please insert the correct DVD side.
- When a DTS sound track is played, the integrated loudspeakers are muted. The DTS sound can only be played digitally using the digital outlet. DTS decoder is necessary for hearing.
- Digital audio output is active only when receiving DVB-T, not when receiving analogue cable TV broadcasting.

Connecting TV to other equipment (continued)

3 Connecting a DVD player

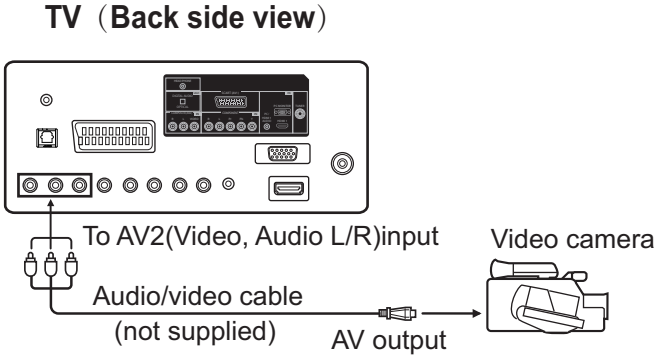
DVD player can be connected to the TV either by a SCART cable or a standard audio cable along with a component video cable (see 5 on this page).

In this case, a SCART cable is required for the connection. To play the DVD, select AV1 input mode on the TV (see page 18).



4 Connecting a video camera

A standard A/V cable is required for the connection. To view the video, select the AV2 input mode on the TV (see page 18).



Note:

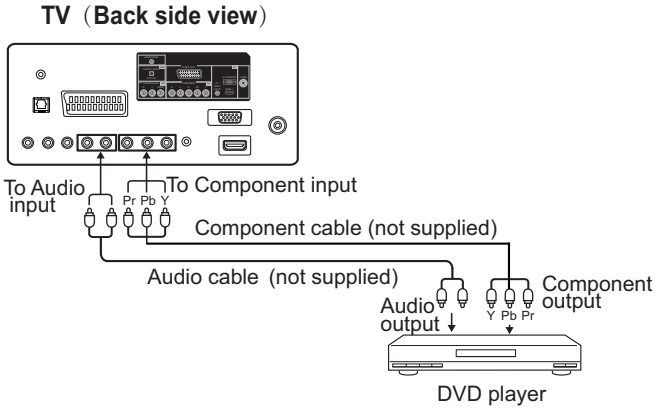
- To connect the video camera using other cables, refer to the video camera's instruction manual for more information.

5 Connecting to a DVD player or other AV device with Component Video outputs

If your DVD player (or other devices) has Component Video output jacks, use a suitable set of leads (RCA/Phono) to connect these to the Component Video inputs on this TV as shown - it can greatly enhance the picture quality and performance. Please remember that you will also need to connect separate leads (RCA/Phono) for the audio signals. Select the Component input source on the TV (see page 18).

Note:

- The Component Video input of the TV is for use with equipment which outputs interlaced signals (PAL:576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).



Status message

Information/Status message	Cause
Invalid entry	The channel does not exist (e.g. “000”).
No radio services	Cannot change to Radio mode because there is no radio service in the channel list.
No TV services	Cannot change to TV mode because there is no TV service in the channel list.
No data services	Cannot change to Data mode because there is no data service in the channel list.
No services	There are no services in the received signal.
No Teletext signal	There is no Teletext in the channel.
Duplicate Timer	When two event timers overlap.
No video No audio	The signal does not contain audio or video.
Audio stream not available	The Multi Audio Menu cannot be displayed because there is no sound.
Descrambling not possible	The services for the selected channel are not available for this card.
CI card initialised	CI card is initialising.
CAM module has been removed	CAM module has been removed. (CAM is used for inserting the CI card).
No CAM Found	CAM module is not found.
Database empty	There are no services in the TV.
No signal	There are no signal inputs.
Locked service	The service is locked by the channel organiser.
Scrambled service	The service is scrambled and unavailable.
Digital Service	Not available.
Not Running	Broadcasting has been suspended.
New service added …	A new service has been added.
Upgrading available service details	Service information has been changed. The channel list is updating.
Duplicate carrier found	The same signal has already been set.
Invalid Stream	Contains a video format that is not supported by this TV.

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Troubleshooting table

Refer to the following checklist to troubleshoot simple problems that may occur during TV operation. If the problem still exists after you try out the possible solutions, consult your local dealer or service outlet for assistance. Check that all connections are properly made when using the TV with another equipment.

Symptom	Possible solution	Page
TV		
TV/DVD does not operate.	• Make sure the power cord is plugged in, and then press **POWER**. • Try another AC outlet. • Unplug the power cord and then plug it back in. • The remote control batteries may be dead. Replace the batteries or try the control panel buttons.	- - - 10
TV broadcast reception		
No picture, no sound.	• Switch on the TV. • Check that the mains power outlet is properly connected. • Select appropriate input mode. • Unplug the TV for one minute, and then plug it back in.	8 11 18 -
No reception.	• Have you tuned in the TV stations? • Connect the antenna. • Make sure the TV is ON and not in standby mode.	14, 18 11 8
The TV switches off with missing antenna input signal.	• 15 minutes after the antenna signal have disappeared, the TV will change to standby mode. This is normal.	23
The **Channel** menu cannot be accessed in the Main Menu screen.	• The TV is not set to ATV/DTV mode.	18
Wrong Colours.	• Colour and Brightness errors can occur when the viewing angle/ambient air temperature (see technical specifications) are exceeded.	-
There is sound but no picture when viewing a DVB (digital) channel.	• Some channels offer audio content only.	-
Blocky image or image stops intermittently.	• Check all antenna connections. • Move the antenna away from areas of possible interference. • Try using an antenna booster.	11 - -
Some digital channels cannot be viewed.	• Contact the service provider to subscribe.	-
Some of the digital subscription channels are unavailable.	• Your subscription needs upgrading. Contact your service provider.	12
The number of digital channels detected differs from place to place.	• Different areas can receive different numbers of channels depending on local transmissions. Contact your service provider or internet sites for available channels.	12
“Database empty” message appears on the screen.	• Check all antenna connections and try auto tuning again.	11
TV shuts off.	• The sleep timer has been activated. • There is power interruption.	24 -
Display is not shown in your preferred language.	• Set your preferred language.	14
Disc playback		
The playback picture has occasional distortion.	• The disc is dirty. Eject the disc and clean it. • Sometimes a small amount of picture distortion may appear. This is not a malfunction.	52, 53 -
Playback does not start.	• No disc is inserted. Insert a disc. • An unplayable disc is inserted. Insert a playable disc (Check the disc type and colour system). • Place the disc in the disc slot with the label side facing forward. • The disc is dirty. Clean the disc. • Cancel the parental lock function or change the parental lock level.	53 52 53 52 74, 76

Troubleshooting table (continued)

X appears on the screen.	• The function is not applicable to the disc or to the current mode.	54
No picture.	• The TV is not in DVD mode.	53
No sound.	• The TV is in a special playback mode. • If you are using an amplifier, check the optical digital audio out connection. • If an external speaker is connected, check its volume control.	55 80 -
Picture is distorted during fast reverse/forward playback.	• The picture will be distorted occasionally. This is normal.	-
Stopping playback, slow motion play, repeat, program, etc. cannot be performed.	• These playback features are not applicable to all discs.	55, 58, 69
The keys on the TV control panel or the remote control are not functioning.	• Turn off the TV and unplug and power cord for several minutes, and then reconnect the power cord.	-
Playback does not start when the title is selected.	• The disc may not be compliant with the “Parental” setting.	74
The audio soundtrack and/or subtitle language cannot be changed.	• The disc has no multi-language option encoded on it.	60
No subtitle.	• The disc has no subtitle encoded on it. • Subtitles are disabled. Press **SUBTITLE**.	60
Scene angle cannot be changed.	• The disc has no multi-angle scenes.	59
Remote control operation		
The remote control does not function.	• Aim the remote control at the remote sensor. • Make sure you use the remote control within approximately five metres of the TV or reduce the light in the room. • Make sure there is no obstruction on the path of the beam. • The batteries are no longer working. Replace the batteries. • Make sure the batteries are properly positioned.	10
REGZA-LINK® operation		
REGZA-LINK® does not function.	• The REGZA-LINK® feature is available for Toshiba REGZA-LINK® compatible devices. • Make sure to use cables with the HDMI Logo (HDMI). • When the connected REGZA-LINK® device does not work correctly after you have changed settings of the device, turn off your TV and unplug the power cord, and then plug it back in and turn on the TV again. • If several devices are connected, REGZA-LINK® feature may not operate properly. • Read the operation manual supplied with the connected REGZA-LINK® device.	32 79 - 79 79
HDMI operation		
HDMI does not function.	• Make sure to use cables with the HDMI Logo (HDMI). • Some legacy HDMI sources may not work properly with the latest HDMI TV products, due to new standard adoption.	79 -
Media Player operation		
Media Player does not function.	• Make sure the devices are connected correctly. • If you connect a USB device with a separate cable or through USB hub, the TV does not recognise the USB device.	- -
The photo files cannot be displayed.	• Make sure you select “Photo” in the Media Player menu. • Make sure the photo file format is supported.	38 36
The music files cannot be displayed or played back.	• Make sure you select “Music” in the Media Player menu. • Make sure the music file format is supported.	41 36

Specifications

Model		**32DV733R**
Television		
LCD panel (approximate screen size, diagonal)		32.0 inch
System	Analogue	PAL UK, IR, CCIR, French System, B/G, D/K, I/I, L/L'
	Digital	DVB-T (OFDM 2k/8k 16QAM/64QAM)
Video colour system		PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
Preset channels		Analogue channels (99) + Digital channels (Carrier 200/Service1000)
Frequency range	Analogue	IRA-S6, S7-S37, S38-E69
	Digital	IRA-S6, S7-S37, S38-E69
LCD		801 mm visible*
		TFT low-glass Active Matrix Colour LCD, 1366 x 768 Pixel
Speaker		167x45x37 mm, 6 Ω x 2
Audio output power		Approx. 10 W (MAX) x 2
DVD		
Signal system		NTSC, PAL (Region 5)
Applicable disc		DVD (12cm, 8cm), CD (12cm, 8cm)
Output	Audio	(RCA) –12.0 dBm, 1 k Ω
	Digital audio	3.3 Vp-p/100 Ω
Pickup	CD	Wavelength: 775 - 805 nm Maximum output power: 0.5 mW
	DVD	Wavelength: 640 - 660 nm Maximum output power: 1.0 mW
Input/Output		
HDMI input		Two HDMI-compliant (type A connector)
		HDCP compliant Suggested scan rates: PAL: 576i/576p/720p/1080i/1080p NTSC: 480i/480p/720p/1080i/1080p PC Audio: 2-channel LPCM, 32/44.1/48 kHz sampling frequency 16/20/24 bits per sample
Component video input		(Y) 1.0 V (p-p), 75 Ω, pin jack x 1 (Pb, Pr) 0.7 V (p-p), 75 Ω, pin jack x 2
Video input		1.0 V (p-p), 75 Ω, pin jack x 1
Audio input		–8dBm, 50 k Ω, pin jack (L/R) x 2
PC input		Monitor: 15-pin mini-D-sub x 1; audio: 3.5-mm stereo jack x 1
SCART terminal		One 21-pin SCART connector
		Include audio/video input, RGB input, and TV audio/video output Video input/output: 1.0 V (p-p), 75 Ω RGB input: 0.7 V (p-p), 75 Ω Audio input: 50k Ω, 500m Vrms Audio output: 1k Ω, 500m Vrms
Optical digital audio output		Optical type
Headphone		3.5-mm stereo mini jack × 1
General		
Power source		AC 220-240V, 50 Hz
Power consumption	Operation	Approx. 92 W at 230 V, 50 Hz
	Standby	Approx. 0.5 W at 230 V, 50 Hz
Weight		11 kg
Dimensions (including foot stand)	Width	31.7 in. (804.6 mm)
	Height	23.2 in. (590.0 mm)
	Depth	10.0 in. (255.0 mm)
Operating temperature		0 °C - 35 °C (32 °F - 95 °F)
Accessories		
		Remote control 2 batteries (AAA/R03/UM-4) AC cord

*Visible screen size is approximate.

Note:

- All weight and dimensions are approximate values.
- We continually strive to improve our products. Designs and specifications are subject to change without notice.

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
December 3, 2009

The zlib License

zlib.h -- interface of the “zlib” general purpose compression library

Version 1.2.3, July 18th, 2005

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